BIOSYSTEMS AND AGRICULTURAL ENGINEERING

Graduate Programs
The Department of Biosystems and Agricultural Engineering offers programs leading to the Master of Science and Doctor of Philosophy degrees in Biosystems Engineering. These degrees emphasize research and development.

Graduate Admission Requirements
Admission to either the Master of Science (MS) or Doctor of Philosophy (PhD) degree program requires graduation from an engineering curriculum accredited by the ABET Engineering Accreditation Commission, http://www.abet.org. Students without accredited degrees may be admitted provisionally and required to take additional courses. A student must be accepted by an advisor in the department prior to official admission to the graduate program.

Program Information
Excellent laboratory and computer facilities are available for students to explore research and design in such areas as bioprocessing and food engineering, machine vision, sensor and control technology, waste management and utilization, hydrology, water quality, porous media flow, and intelligent systems for agricultural machine design and production.

Research projects are supported by the Oklahoma Agricultural Experiment Station and by state, federal and private grants and contracts. Well-trained faculty members, many of whom are registered professional engineers with research, consulting and design experience, guide the graduate students’ activities and plan programs to meet students’ needs. Graduate students design experiments and special equipment to conduct their work. They are expected to demonstrate, by supporting research or by designs, the ability to identify a problem, define alternatives, propose a solution, organize a design or an experimental investigation, manage the project to completion and report the results through peer-reviewed papers and professional presentations.

Degree Requirements
BAE MS students may apply for a thesis option or a non-thesis option MS, subject to the approval of their graduate committee. A Thesis Option MS requires a minimum of 24 hours of coursework, 6 hours of BAE 5000-level classes and a thesis. A Non-Thesis Option MS requires a minimum of 30 hours of coursework, 2 hours of BAE 5000-level classes, and a creativity component.

Students with a qualifying M.S. will normally take 36 hours of graduate coursework and 24 hours of BAE 6000-level classes. Deviations from the 24 hours of BAE 6000-level classes must be approved by the Departmental Graduate Committee. In no case will less than 15 or more than 42 hours of BAE 6000-level classes be allowed on the Plan of Study.