Biological and Agricultural Engineering (BAE) Program Outcomes
(Approved by the BAE Faculty Nov. 7, 2003)

BAE Undergraduate Program Outcomes	KSU UG Student Learning Outcomes
1. An ability to apply knowledge of mathematics, science, and engineering.	Knowledge
2. An ability to design and conduct experiments, as well as to analyze and interpret data.	Knowledge Critical Thinking
3. An ability to design a system, component, or process to meet desired needs.	Knowledge Critical Thinking
4. An ability to function on multi-disciplinary teams.	Communication Diversity
5. An ability to identify, formulate, and solve engineering problems.	Knowledge Critical Thinking
6. An understanding of professional and ethical responsibility.	Personal and Professional Development
7. An ability to communicate effectively.	Communication
8. The broad education necessary to understand the impact of engineering solutions in a global and societal context.	Diversity Knowledge
9. A recognition of the need for, and an ability to engage in life-long learning.	Ownership of Learning
10. A knowledge of contemporary issues.	Diversity
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	Knowledge Critical Thinking
12. Knowledge of agricultural sciences, biological sciences, chemical sciences, natural resource topics.	Knowledge
13. Competency in fields such as biological materials, computer and automated systems, information systems, machine systems, processing systems, biological systems, modified environment design, natural resource systems, biological kinetics, structural design.	Knowledge Critical Thinking
14. Professional engineering practice/ registration.	Personal and Professional Development
15. Research and advanced studies.	Ownership of Learning Personal and Professional Development