SAG 210 INTRODUCTION TO SUSTAINABLE AGRICULTURE AND COMMUNITY FOOD SYSTEMS. (3)
Introduction to the environmental, economic and cultural components of sustainable food production and distribution in local and regional food systems. The definition, emergence, and growth of sustainable agriculture are discussed along with pertinent soil, crop, and livestock management practices. Emphasis is placed on holistic analyses of current issues in agriculture and food systems from environmental, profitability, and social justice perspectives.

*SAG 310 CULTURAL PERSPECTIVES ON SUSTAINABILITY. (3)
This course focuses on the social processes and cultural mechanisms that underlie everyday agricultural practices, in the U.S. and abroad. By comparing agriculture and food systems between the U.S. and other countries, the course helps students appreciate distinctiveness of each society’s effort to build agricultural sustainability and recognize the common challenges of such an effort in the context of globalized agricultural trade and food production. Prereq: SAG 210. This course comprises a portion of the Graduation Composition and Communication Requirement (GCCR) course in certain programs, and hence is not likely to be eligible for automatic transfer credit to UK.

SAG 386 PLANT PRODUCTION SYSTEMS. (4)
In-depth analysis of the underlying principles of plant production systems. Successful strategies, based on application of the principles developed by lecture and laboratory activities, will be discussed in either agronomic or horticultural contexts. Special attention will be given to minimizing the environmental impact of the plant production techniques employed. Prereq: PLS 210 and PLS 366 or concurrently or consent of instructor. (Same as PLS 386.)

SAG 390 AGROECOLOGY. (3)
A general introduction to ecological principles and processes applied to agricultural ecosystems, including interactions between plants, soils, and animals on population, community and ecosystems scales. Course concepts will be applied to agricultural ecosystems that are of economic importance and ecological significance to the state of Kentucky. Emphasis will be placed on understanding how an ecological perspective can inform sustainable land management, the ecological basis for best management practices, and the interdisciplinary nature of agroecosystem management. (Same as PLS 390.)

SAG 395 RESEARCH IN SUSTAINABLE AGRICULTURE. (1-6)
Independent research related to some aspect of sustainable agriculture under the direction of a research mentor. The research may be conducted in the College of Agriculture, some other unit on campus, or at an approved off-campus entity. Projects can include, but are not limited to, laboratory experiments, field-based research, and studies involving sociology, economics, anthropology, or related disciplines. There is a clear expectation that quantitative data collection and analysis will be an integral part of the research project. Prereq: Consent of instructor and approval of Learning Contract.

*SAG 397 APPRENTICESHIP IN SUSTAINABLE AGRICULTURE. (3)
Provides students with hands-on experience operating an organic community supported agriculture produce farm and marketing its harvest in the local community. Students receive training across the full range of production and marketing activities under the guidance of the Course Coordinator and the professional staff of the farm management team. Prereq: SAG 101 and SAG 201, or consent of instructor.

*SAG 490 INTEGRATION OF SUSTAINABLE AGRICULTURE PRINCIPLES. (3)
This course provides an intensive opportunity for students to integrate critical aspects of sustainability into a semester-long project. The project will involve research, design, and implementation phases, and students will present their work in both written and oral forms. This class will also allow students to gain a deeper understanding of a range of topics related to sustainable agriculture through field trips to local agriculture and food system entities, and hands-on workshops where skills and techniques are learned. Field trip and workshop topics will be determined by the students and instructor at the beginning of the semester. Additionally, students will gain first-hand experience in sustainable agriculture by taking a spring break study tour to visit exemplary agriculture sites in a region of the United States. This course comprises a portion of the Graduation Composition and Communication Requirement (GCCR) course in certain programs, and hence is not likely to be eligible for automatic transfer credit to UK. A course fee is required, as indicated by notification during course registration. Prereq: Senior standing in the College of Agriculture, Food, and Environment, SAG 210, SAG 310, SAG 397, and completion of CIS/WRD 110 and 111.