AGSC 101. Introduction to Agricultural and Environmental Resources. 1 Credit. (1 Lec) F
PREREQUISITE: Freshman or New Transfer Students. This course is optional but all freshmen in the College of Agriculture are strongly encouraged to enroll. Students taking this course will be introduced to all areas of the very broad field of agriculture, including all department programs and areas of specialty, career opportunities, professionalism, history, and ethics.

AGSC 242. Crop Identification. 1 Credit. (1 Lab) F
Meets first third of semester. Recognition and identification of seed, vegetative parts, and floral structure of selected field and forage crops.

AGSC 290R. Undergraduate Research. 1-6 Credits. (1-6 Ind; max unlimited) F,S
PREREQUISITE: Consent of instructor. Directed undergraduate research/creative activity which may culminate in a written work or other creative project. Course will address responsible conduct of research.

AGSC 291. Special Topics. 1 Credit. (1 Lec) On Demand
PREREQUISITE: None required but some may be determined necessary by each offering department. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

AGSC 292. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) On Demand
PREREQUISITE: Consent of instructor and approval of department head.

AGSC 341. Field Crop Production. 3 Credits. (3 Lec) S
PREREQUISITE: ENSC 245IN Production of field crops using practical and applied crop management principles. Emphasis includes understanding of crop management principles and application of problem solving capabilities to field crop management situations.

AGSC 342. Forages. 3 Credits. (2 Lec, 1 Lab) F
PREREQUISITE: Sophomore standing or higher consent of instructor. Principles of applied forage crop management including establishment, irrigation, fertilization, pests, harvesting, and forage integration of many legume and grass species.

AGSC 356. Plant Nutrition and Soil Fertility Management. 3 Credits. (3 Lec) F
PREREQUISITE: ENSC 245IN and CHMY 121IN or CHMY 141. Applied management of soil fertility to meet plant nutrition needs in agronomic and horticultural systems. Diagnosis of plant nutrient deficiency and toxicity, management of fertilizer and organic sources of plant nutrients, and assessment of environmental effects of soil fertility management.

AGSC 401. Integrated Pest Management. 3 Credits. (3 Lec) F
PREREQUISITE: BIOO 262IN and one of the following: BIOL 100IN, BIOL 170IN or consent of instructor. This course focuses on conceptual approaches to integrated pest management. The overall framework will be the effective production of foodstuffs to meet increasing demands for safe and healthy commodities for consumers. By integrating multiple tactics, the production of food can be optimized given the current limitations to traditional “silver bullet” pest management. Material covered will include the definitions of IPM terminology as applied to weedy, arthropod, and microbial pests; management tactics including biological, cultural, and chemical controls; host plant resistance and genetic modification; sample case studies; applicability to specialized production systems.

AGSC 428. Cropping Systems and Sustainable Agriculture. 3 Credits. (3 Lec) S
PREREQUISITE: ENSC 245IN and either AGSC 341 or AGSC 356 or consent of instructor. The course goal is to elevate agricultural students’ awareness of peer-reviewed literature that demonstrates application of principles to address issues of sustainability in agriculture. The course will use a student-led discussion format to highlight issues and principles in review of a series of papers that the class will read. It will focus on the interaction among agronomy, ecology, economics, and sociology to create an awareness of the interdisciplinary issues associated with sustainability in agriculture. Topical issues associated with climate change impacts, system resilience and thresholds and ways to understand complex interactions will be considered for discussion. Co-convened with LRES 529.

AGSC 441. Plant Breeding & Genetics. 3 Credits. (3 Lec) S
Alternate Odd Years COREQUISITE: BIOJ 375 or BIOJ 377. The genetic principles and practices involved in plant breeding. Selection of plant breeding methods based on an understanding of a plant species genetics and reproductive mechanisms. The class includes hands-on experience in plant breeding through a series of lab and greenhouse exercises.
Font Notice
This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.