SUSTAINABLE AGRICULTURAL AND FOOD SYSTEMS (MINOR)

College of Agriculture and Life Sciences

Program Website (https://cals.cornell.edu/education/degrees-programs/sustainable-agricultural-and-food-systems-minor)

Program Description

The Sustainable Agricultural and Food Systems (SAFS) minor in the College of Agriculture and Life Sciences is designed to provide students with a broad understanding of the role of agricultural and food systems in meeting human food needs and the impacts of these systems on the natural environment.

Working closely with an advisor, students will choose a series of courses from several disciplines that together offer a broad perspective on issues related to delivering an adequate, safe, nutritious, accessible, and sustainable food supply for an expanding global population. The quantity and quality of agricultural products in domestic and global markets are major determinants of human health and wellbeing. Agriculture and food processing and distribution are also major contributors to climate change and environmental pollution. This minor will help students acquire the knowledge and skills necessary for ensuring food and nutrition security for all.

Academic Standards

Grade Requirements

Students must complete at least 10 letter-graded credits with a C- or higher.

Program Information

- Minimum Credits for Minor: 15

Minor Requirements

At least 2 courses at the 3000-level or higher and at least 1 course in each of the 3 areas (animal science, plant sciences, and food science) are required. Courses that fulfill requirements for a student's major cannot be used to meet requirements for this minor. Other courses may qualify pending approval of the student's minor advisor.

Code	Title	Hours
Capstone Course		
Select one of the following:		
ANSC 4880	Global Food, Energy, and Water Nexus – Engage the US, China, and India for Sustainable Future	3-4
FDSC 4880	Global Food, Energy, and Water Nexus – Engage the US, China, and India for Sustainable Future	3-4
AEM 4880	Global Food, Energy, and Water Nexus – Engage the US, China, and India for Sustainable Future	3-4
CHEME 4880	Global Food, Energy, and Water Nexus – Engage the US, China, and India for Sustainable Future	3-4

Code	Title	Hours
Foundation Course		
Choose at least 1 course:		
ANSC 2120	Animal Nutrition	4
FDSC 1500	Food Choices and Issues	3
PLSCI 1900	Sustainable Agriculture: Food, Farming, and the Future	3
NTRES 1101	Understanding Environment and Sustainability	3
BIOEE 1610	Introductory Biology: Ecology and the Environment	3-4

Code	Title	Hours
Food Production		
Choose at least 3 courses:		
ANSC 1101	Contemporary Perspectives in Animal Science	1-2
ANSC 2000	Sustainable Food and Companion Animal Systems and Perspectives	3
ANSC 3300	Fish Physiology	3
ANSC 3600	Beef Cattle Production	3
ANSC 4120	Whole-Farm Nutrient Management	4
AEM 3385	Social Entrepreneurship Practicum: Anabel's Grocery	3
BEE 3299	Sustainable Development	3
BIOEE 4690	Food, Agriculture, and Society	3
ENTOM 2030	Honey Bees: Their Intriguing Biology and Interactions with Humans and More	3
FDSC 2000	Introduction to Physiochemical and Biological Aspects of Foods	3
FDSC 3960	Food Safety Assurance	2
FDSC 4230	Unit Operations and Food Packaging	2
PLSCI 1101	Plant Science and Systems	4
PLSCI 1300	Just Food: Exploring the Modern Food System	4
PLSCI 2600	Soil Science	4
PLSCI 3210	Soil and Crop Management for Sustainability	3
PLSCI 3800	Principles and Practices in Certified Organic Agriculture	3
PLSCI 4140	Global Cropping Systems and Sustainable Development	3
VIEN 2204	Principles and Practices of Growing Grapes and Making Wines	3
GDEV 2300	Food Systems and Sustainable Development	3
GDEV 3260	Water	3
PLSCI 2110	Field Crop Systems	4
PLSCI 3025	Hydroponic Food Crop Production and Management	4
PLSCI 3030	FoodCycle: Systems Thinking Toward Circular Economy for Organic Resources	3