Sustainable Agriculture and Community Food Systems

College of Agriculture, Food and Environment

This interdisciplinary, interdepartmental program in the College of Agriculture, Food and Environment is grounded in the framework integrates three conceptual “pillars”: environmental stewardship, economic profitability, and social responsibility. Sustainable Agriculture and Community Food Systems core courses are designed to integrate these perspectives at the introductory, intermediate, and capstone levels. The remainder of the curriculum leverages external courses within each of these “three pillars” of sustainability, in addition to UK Core and premajor requirements.

Sustainability support credits are recommended along two tracks: 1) Farming Systems – for students seeking focus on sustainable production methods and biophysical systems; and 2) Community Food Systems – for students seeking focus on food systems issues beyond the “farm gate”, including access, food security, and hunger issues. Experiential learning is emphasized throughout the program, through the course work and faculty advising directing independent research (395-level) and EXP 399 credit, as well as Education Abroad offerings. Graduates of the B.S. in Sustainable Agriculture and Community Food Systems are prepared for careers in farming, the non-profit sector, Cooperative Extension, local government, on-farm conservation service providers, and graduate studies in their track area.

Graduation Requirements
Students must complete a minimum of 120 semester credit hours with at least 45 credit hours from courses at the 300 level or above. A 2.0 grade-point standing (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree. In addition to the UK Core and college requirements, students must select an Option with the assistance of an advisor and fulfill the area’s program requirements.

UK Core Requirements
See the UK Core section of the 2020-2021 Undergraduate Bulletin for the complete UK Core requirements. The courses listed below are (a) required by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list.................................................3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list.................................................3

III. Intellectual Inquiry in the Social Sciences
Recommended:
*CLD 102 The Dynamics of Rural Social Life
or
*SOC 101 Introduction to Sociology.................................................3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list.................................................3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I..........................3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II..........................3

VII. Quantitative Foundations
PHI 120 The Art of Thinking: An Introduction to Logic
or
MA 109 College Algebra.........................................................3

VIII. Statistical Inferential Reasoning
*STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning.................................................3

IX. Community, Culture and Citizenship in the USA
**GEN 100 Issues in Agriculture, Food and Environment.............................................3

X. Global Dynamics
SAG 310 Cultural Perspectives on Sustainability.............................................3

UK Core hours.................................................................30

*Satisfies the premajor requirement.
**Satisfies the College requirement.

Graduation Composition and Communication Requirement (GCCR)
SAG 310 Cultural Perspectives on Sustainability.............................................3
SAG 490 Integration of Sustainable Agriculture Principles.............................................3

Subtotal: Graduation Composition and Communication hours (GCCR)..........................6

Premajor Requirements
BIO 148 Introductory Biology I.....................................................3
BIO 152 Principles of Biology II....................................................3
CHE 104 Introductory General Chemistry............................................3
CHE 108 Introduction to Inorganic, Organic and Biochemistry Without Laboratory.....................................................3
DHN 212 Introductory Nutrition.....................................................3
ECO 201 Principles of Economics I..................................................3

Subtotal: Premajor hours......................................................18

Major Requirements
Environmental Stewardship Cluster
ASC 382 Animal Production Principles.............................................3
PLS 366 Fundamentals of Soil Science.............................................4
PLS/SAG 386 Plant Production Systems.............................................4

Economic Profitability Cluster
AEC 302 Agricultural Management Principles....................................4
AEC 305 Food and Agricultural Marketing Principles..........................3
AEC 445G Introduction to Resource and Environmental Economics.....................................................3

Social Responsibility Cluster
PHI 205 Food Ethics...............................................................................3
SOC 360 Environmental Sociology.....................................................3
CLD/SOC 420 Sociology of Communities
or
CLD/SOC 517 Rural Sociology.........................................................3

Sustainable Agriculture Core
SAG 210 Introduction to Sustainable Agriculture
and Community Food Systems.........................................................3
SAG 310 Cultural Perspectives on Sustainability.....................................3
SAG 397 Apprenticeship in Sustainable Agriculture..................................3
SAG 490 Integration of Sustainable Agriculture Principles..........................3

Subtotal: Major hours......................................................42

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### Specialty Support

Students must declare one program track in the SAG major.

#### Community Food Systems Track

Students must declare one track in the SAG major. At least 12 hours must come from this single track, with 9 additional credits selected from courses in either program track, or other supporting courses at the 200-level or above, with approval by the student’s academic advisor. For the Community Food Systems Track, select 12 hours from the following courses in consultation with your academic advisor. Additional course work, including education abroad credit and special topics courses, may be appropriate to fulfill this requirement, but must be approved in advance by the student’s academic advisor. All track course work must be taken for a grade, not pass/fail.

- AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products
- AEC 300 Topics in Agricultural Economics (Subtitle required)
- AEC 532 Agricultural and Food Policy
- ANT 303 Topics in the Anthropology of Food and Nutrition (Subtitle required)
- ANT 338 Economic Anthropology
- ANT 225 Culture, Environment and Global Issues
- ANT 375 Ecology and Social Practice
- CLD 401 Principles of Cooperative Extension
- CLD/SOC 420 Sociology of Communities
- *CLD 475 Topics in Non-Formal Education (Subtitle required)
- *CLD 480 Topics in Community (Subtitle required)
- DEH 318 Hunger, Food Behavior, and the Environment
- DEH 319 Seminar in Hunger Studies
- *GEN 300 Special Course
- GEO 235 Environmental Management and Policy
- GEO 316 Environment and Development
- GEO 431 Political Ecology
- PHI 336 Environmental Ethics
- SOC 363 Environmental Justice
- SOC 534 Sociology of Appalachia

*Courses must have appropriate subtitle. AEC 300: Economics of Nonprofits. CLD 475: An Entrepreneurial Approach to Community Education. CLD 480: Food, Culture and Community. GEN 300: Food Connections: Issues in Food Systems.

### Farming Systems Track

Students must declare one track in the SAG major. At least 12 hours must come from this single track, with 9 additional credits selected from supporting courses in either program track, or other supporting courses at the 200-level or above, with approval by the student’s academic advisor. For the Farming Systems Track, select 12 hours from the following courses in consultation with your academic advisor. Additional course work, including education abroad credit and special topics courses, may be appropriate to fulfill this requirement, but must be approved in advance by the student’s academic advisor. All track course work must be taken for a grade, not pass/fail.

- AEN 252 Fabrication and Construction for Technical Systems
- AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products
- AEC 311 Livestock and Meat Marketing
- AEC 316 Cooperative Management and Marketing
- AEC 317 Marketing Horticultural Products
- ASC 300 Meat Science
- ASC 325 Animal Physiology
- ASC 340 Poultry Production
- ASC 362 Animal Breeding and Genetics
- ASC 364 Reproductive Physiology of Farm Animals
- ASC 378 Animal Nutrition and Feeding
- ASC 404G Sheep Science
- ASC 406 Beef Cattle Science
- ASC 408G Swine Production
- ASC 410G Equine Science
- ASC 420G Dairy Cattle Management
- ENT 300 General Entomology
- ENT 320 Horticultural Entomology
- FOR 340 Forest Ecology
- PLS 220 Introduction to Plant Identification
- PLS 336 Introduction to Viticulture – Grape Production
- PLS 337 Introduction to Enology: Wine Production
- PLS/SAG 390 Agroecology
- PPA 406G Principles of Plant Pathology
- PLS 404 Integrated Weed Management
- PLS 440 Plant Propagation
- PLS 465 Greenhouses and Controlled Environments
- PLS 468G Soil Use and Management
- PLS 470G Soil Nutrient Management
- PLS 510 Forage Management and Utilization
- PLS 520 Fruit and Vegetable Production
- PLS 531 Field Schools in Crop Pest Management

### Subtotal: Specialty Support hours

21

### Electives

Free electives may be chosen as needed to achieve at least 120 credit hours.

### Subtotal: Elective hours

12

**TOTAL HOURS:** 120