SUSTAINABLE AGRICULTURE (SUSAG)

Any experimental courses offered by SUSAG can be found at:

registrar.iastate.edu/faculty-staff/courses/explistings/ (http://www.registrar.iastate.edu/faculty-staff/courses/explistings/)

Courses primarily for graduate students, open to qualified undergraduates:

SUSAG 509: Agroecosystems Analysis

(Cross-listed with AGRON, SOC). (3-4) Cr. 4. F.

Prereq: Senior or above classification; permission of instructor

Experiential, interdisciplinary examination of Midwestern agricultural and food systems, emphasizing both field visits and classroom activities.

Focus on understanding multiple elements, perspectives (agronomic, economic, ecological, social, etc.), and scales of operation.

SUSAG 515: Integrated Crop and Livestock Production Systems

(Cross-listed with A B E, AGRON, AN S). (3-0) Cr. 3. Alt. F., offered odd-numbered years.

Prereg: SUSAG 509

Methods to maintain productivity and minimize the negative ecological effects of agricultural systems by understanding nutrient cycles, managing manure and crop residue, and utilizing multispecies interactions. Crop and livestock production within landscapes and watersheds is also considered. Course includes a significant field component, with student teams analyzing lowa farms.

SUSAG 530: Ecologically Based Pest Management Strategies

(Cross-listed with AGRON, ENT, PL P). (3-0) Cr. 3. Alt. F., offered even-numbered years.

Durable, least-toxic strategies for managing weeds, pathogens, and insect pests, with emphasis on underlying ecological processes.

SUSAG 544: Sociology of Food and Agricultural Systems

(Cross-listed with SOC). (3-0) Cr. 3.

Prereq: SOC 325 or graduate standing

Social organization of food and fiber production, processing, and distribution systems. Sociological comparison of conventional and alternative production systems; gender roles in agriculture and food systems; local, national and global food systems; perspectives on food and agricultural research and policy.

SUSAG 546: Strategies for Diversified Food and Farming Systems

(Cross-listed with AGRON, HORT). (3-0) Cr. 3. Alt. S., offered odd-numbered years.

Prereq: SUSAG 509

Project-focused engagement in food and farming systems using tools and perspectives drawn from multiple disciplines. Includes a field component.

SUSAG 549: Sociology of the Environment

(Cross-listed with SOC). (3-0) Cr. 3.

Prereg: 6 credits in sociology

Social causes and social consequences of environmental problems.

Interrelationship between social inequality and environmental inequality.

Social construction and social experience of the environment.

Contemporary developments in the social theory of the environment.

International and domestic implications.

SUSAG 571: Agroforestry Systems

(Cross-listed with NREM). (3-0) Cr. 3. Alt. S., offered even-numbered years. *Prereq:* 6 credits in BIOL at 300 level or above

Concepts of sustainable land use, agroecological dynamics, and component interactions of agroforestry systems. Agroforestry systems in temperate and tropical regions. Design and evaluation techniques for agroforestry systems. Ecological, socioeconomic and political aspects of agroforestry.

Meets International Perspectives Requirement.

SUSAG 584: Organic Agricultural Theory and Practice

(Cross-listed with AGRON, HORT). (3-0) Cr. 3. Alt. S., offered odd-numbered years.

Prereg: 9 credits in biological or physical sciences

Understanding of the historical origins and ecological theories underpinning the practices involved in organic agriculture.

Interdisciplinary examination of crop and livestock production and socioeconomic processes and policies in organic agriculture from researcher and producer perspectives.

SUSAG 590: Special Topics

Cr. 1-3. Repeatable. F.S.SS.

Prereq: Graduate classification, permission of instructor
For students wishing to conduct in-depth study of a particular topic in sustainable agriculture.

SUSAG 599: Creative Component

Cr. arr. F.S.SS.

Pre-enrollment contract required. For MS students pursuing the nonthesis degree option. Final product is a creative component.

Courses for graduate students:

SUSAG 600: Sustainable Agriculture Colloquium

(1-0) Cr. 1. Repeatable. F.S.

Weekly seminar for graduate students in the Sustainable Agriculture program.

SUSAG 610: Foundations of Sustainable Agriculture

(Cross-listed with A B E, AGRON, ANTHR, SOC). (3-0) Cr. 3. F. Prereq: Graduate classification, permission of instructor Historical, biophysical, socioeconomic, and ethical dimensions of agricultural sustainability. Strategies for evaluating existing and emerging agricultural systems in terms of the core concepts of sustainability and their theoretical contexts.

SUSAG 699: Research

Cr. arr. Repeatable. F.S.SS.

MS and PhD thesis and dissertation research.