Natural science education in sustainable agriculture curriculum: 
*Context, experience, and interdisciplinarity*

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Introduction

1. Some Context and Framing
2. Univ. of Kentucky Sustainable Agriculture and Community Food Systems Undergraduate Program
3. The Role of Experiential Education
The Natural Sciences in Context

Food is a focus!

Trade-offs are everywhere.
Our goal: an understanding of the mechanisms driving these “tradeoffs”
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Skills our students need:

- Systems thinking
- Site-specific perspective
- In-depth content knowledge
- Understanding and appreciation of socioeconomic context
Sustainable Ag and Community Food Systems Undergrad Program

**Major Learning Outcomes**

- **Content knowledge**
  - Economic Profitability
    - Farm Management
    - Marketing
    - Environmental Econ
  - Environmental Stewardship
    - Plant Production
    - Soils
    - Animal Systems
  - Social Responsibility
    - Rural Sociology
    - Food Ethics
    - Globalization

- **Directed Electives**

- **SAG Core Courses**

- **Courses for minors, etc.**
SAG @ UKY: Core coursework

SAG 490: Integration of Sustainable Ag Principles

SAG 101: Introduction to Sustainable Ag and Community Food Systems

SAG 201: Cultural Perspectives on Sustainability

SAG 397: Apprenticeship in Sustainable Agriculture
Expanding World Views

Tropical Agroecology and Sustainable Development in Indonesia
Engaging with a community of sustainable ag educators
Thank you!

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