



### **Twin Cities Campus**

## **Food Systems Minor**

*Agronomy & Plant Genetics, Animal Science, Entomology, Food Science & Nutrition, Horticultural Science*

### **College of Food, Agricultural and Natural Resource Sciences**

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Spring 2019
- Required credits in this minor: 18 to 21

The Food Systems minor is for students who want to supplement their major program by developing the interdisciplinary knowledge and problem-solving skills needed to address complex challenges and opportunities in food systems. The focus is on designing and developing food systems that are sustainable in environmental, economic, and social terms.

## **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)

## **Minor Requirements**

### **Minor Core**

Students must complete the following three courses:

- [FDSY 2101](#) - Plant Production Systems (3.0 cr)
- [BBE 3201](#) - Sustainability of Food Systems: A Life Cycle Perspective [GP] (3.0 cr)
- [APEC 3202](#) - An Introduction to the Food System: Analysis, Management and Design (3.0 cr)

### **Electives**

Complete a minimum of 9 credits within one of the following three tracks.

#### **Agroecology Track**

Take 9 or more credit(s) from the following:

- [ESPM 3108](#) - Ecology of Managed Systems [ENV] (3.0 cr)
- [SOIL 2125](#) - Basic Soil Science [PHYS, ENV] (4.0 cr)
- [HORT 2121](#) - Agricultural Biochemistry (3.0 cr)  
or [BIOC 3021](#) - Biochemistry (3.0 cr)
- [PLSC 3005W](#) - Introduction to Plant Physiology [WI] (4.0 cr)

-OR-

#### **Consumer and Markets Track**

Take 9 or more credit(s) from the following:

- [ANSC 1511](#) - Food Animal Products for Consumers (3.0 cr)
- [APEC 3071](#) - Microeconomics of International Development (3.0 cr)
- [APEC 3411](#) - Commodity Marketing (3.0 cr)
- [APEC 3501](#) - Agribusiness Finance (3.0 cr)
- [APEC 4451W](#) - Food Marketing Economics [CIV, WI] (3.0 cr)
- [HORT 4461](#) - Horticultural Marketing (3.0 cr)
- [APEC 4481](#) - Futures and Options Markets (3.0 cr)
- [APEC 4821W](#) - Business Economics and Strategy [WI] (3.0 cr)
- [APEC 5841](#) - Agricultural and Consumer Cooperatives and Mutuals (3.0 cr)
- [FSCN 1011](#) - Science of Food and Cooking [PHYS] (4.0 cr)
- [FSCN 1102](#) - Food: Safety, Risks, and Technology [CIV] (3.0 cr)
- [FSCN 2001](#) - A Food Systems Approach to Cooking for Health and the Environment (3.0 cr)
- [FSCN 2021](#) - Introductory Microbiology (4.0 cr)
- [FSCN 3102](#) - Introduction to Food Science (3.0 cr)
- [FSCN 3612](#) - Life Cycle Nutrition (3.0 cr)
- [FSCN 3615](#) *{Inactive}* [GP] (3.0 cr)
- [FSCN 4131](#) - Food Quality (3.0 cr)
- [HORT 1031](#) - Vines and Wines: Introduction to Viticulture and Enology (3.0 cr)
- [APEC 3551](#) - Concept Design and Value-Added Entrepreneurship in Food, Agricultural and Natural Resource Sciences (3.0 cr)
- [APEC 3811](#) - Principles of Farm Management (3.0 cr)

-OR-



**Organics and Local Food Production Track**

Take 9 or more credit(s) from the following:

- [APS 5103](#) - Integration of Sustainable Agriculture Concepts (3.0 cr)
- [HORT 2121](#) - Agricultural Biochemistry (3.0 cr)
- [PLSC 3005W](#) - Introduction to Plant Physiology [WI] (4.0 cr)
- [CFAN 2333](#) - Insects, Microbes, and Plants: Ecology of Pest Management [TS] (3.0 cr)
- [HORT 3131](#) - Student Organic Farm Planning, Growing, and Marketing (3.0 cr)
- [HORT 1001](#) - Plant Propagation [BIOL] (4.0 cr)
- [SOIL 2125](#) - Basic Soil Science [PHYS, ENV] (4.0 cr)