

## **NUTR 696: Independent Study Food Safety** (Fall 2005 - 3 credits)

### ● **Course Description**

Food safety education as it is applied in K-12 educational settings using inquiry-based learning theory. Participants will research the literature, design, implement, collect data, and evaluate a food safety lesson plan. Critical evaluation of online resources in food safety. Research paper required. Prerequisites: HEA 115, HEA 116, and HEA 118.

### ● **Instructors**

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### ● **Objectives**

The learner will:

- ❖ Increase knowledge of concepts in food safety, including microbiological growth, prevention of contamination and cross-contamination, and food handling.
- ❖ Increase familiarity with inquiry-based learning
- ❖ Apply food safety concepts and skills of inquiry in the K-12 classroom
- ❖ Develop, implement, and evaluate inquiry-based food safety activities in the classroom.
- ❖ Critically evaluate online resources in food safety.
- ❖ Integrate readings in food safety and inquiry-based learning.

## ● Activities

1. Complete 3 online modules from the Food Safety FIRST program:
  - ❖ Bacteria are Everywhere
  - ❖ Food Handling is a Risky Business
  - ❖ Current Controversies in Food Science
  
2. Adapt a food safety lesson plan for the K-12 classroom to include skills of inquiry  
(<http://www.doe.mass.edu/frameworks/scitech/2001/vision/iande.html> )
  
3. Develop an evaluation to measure student learning during the food safety lesson plan in #2 above.
  
4. Implement the lesson plan and evaluate student learning; collect data.
  
5. Write a 15 to 25-page paper to address:
  - ❖ Literature review on a food safety topic  
(web-based references acceptable)
  - ❖ Purpose of lesson plan
  - ❖ Lesson plan description
  - ❖ Evaluation collection methods
  - ❖ Results
  - ❖ Discussion
    - Summary of findings
    - Application to inquiry-based learning
    - Recommendations for change
    - Lessons learned

## ● Prerequisites

Learners must have completed the 3 online modules of the Food Safety FIRST program ( <http://www.foodsafetyfirst.org> );  
i.e., HEA 115, HEA 116, and HEA 118.

## ● **Course Timeline Fall 2005**

- **September 26** – Purpose of the lesson plan stated; begin literature review
- **October 17** – First draft of literature review completed
- **November 7**– Description of lesson plan and evaluation method completed
- **November 8 to 23** - Implement the lesson plan and collect evaluation data
- **November 28 to December 13, 2004** – Write research paper
  
- **Paper due:** Tuesday, December 13

## ● **Grading**

|                               |           |
|-------------------------------|-----------|
| Literature Review             | 25 points |
| Purpose                       | 5 points  |
| Lesson Plan Description       | 10 points |
| Evaluation collection methods | 10 points |
| Results                       | 20 points |
| Discussion                    | 30 points |

## ● **Final Grade**

- > 93% = A
- 90-93% = A-
- 87-89% = B+
- 84-86% = B
- 80-83 % = B-
- 70-79% = C
- < 70% =F