



## MASTER COURSE OUTLINE

A. FSCI 1020 Food Security and Bio-Security

B. COURSE DESCRIPTION:

This course is designed to raise awareness of the vulnerabilities related to the defense and security of the nation's food supply. It will also focus on the behaviors and motivation leading to bio-security issues. Students will be introduced to state and federal regulatory agencies involved in ensuring safe food.

**(3 Cr – 3 lect, 0 lab)**

C. \*\*Core Theme: Ethical and Civic Responsibility

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Potential threats to food product flow, property and personal systems.
- ORM (Operational Risk Management)
- FSIS (Food Safety and Inspection Service)
- Bioterrorism/agro terrorism agents
- Role of regulatory and federal agencies such as the Food and Drug Administration (FDA), United States Department of Agriculture (USDA) and Centers for Disease Control (CDC).
- ALERT training module found on the web site:  
<http://www.cfsan.fda.gov/fooddefense>
- Title III in the Bioterrorism Act of 2002 as it pertains to the nation's food supply and safe handling of food.

F. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
** <u>Ethical and Civic Responsibility</u>	understand and apply core concepts (e.g., politics, rights and obligations, justice, liberty) to specific issues.	<ol style="list-style-type: none"> <li>1. participate in a comprehensive overview of the FDA, FSIS, USDA, and CDC.</li> <li>2. demonstrate an understanding of federal regulatory agencies involved in assuring the safe production and transport of food from a national and international standpoint.</li> </ol>
<u>CS</u>	learn the importance of recognizing and identifying behaviors that may put the food product at risk for adulteration.	<ol style="list-style-type: none"> <li>1. apply methods to recognize and reduce the likelihood of intentional contamination of food at work and during transport of the food product.</li> </ol>
<u>CS</u>	study ORM (operational risk management) as it applies to their work environment.	<ol style="list-style-type: none"> <li>1. identify the basics of ORM; the steps, levels and principles; what ORM is and isn't; and the roles and responsibilities of those involved in the implementation of ORM.</li> </ol>
<u>CS</u>	demonstrate a basic knowledge of the major food-borne bio-terror agents and their characteristics.	<ol style="list-style-type: none"> <li>1. identify the foods and agricultural products are high risk targets for biological attack.</li> </ol>

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

H. COURSE CODING INFORMATION:

Course Code C/Class Maximum: 48; Letter Grade

Revision date: 04/30/10; 10/04/22

AASC Approval date: 02/24/15; 10/18/22

<b>*Riverland Community College Disciplines</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

<b>**Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>
Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.