



## Transforming Discovery to Impact: Public Health for a Healthier World

### The School of Public Health Self Study Report: February 2007

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#### Appendix 2.6.c. Sub-Competency: Public Health Certificate in Food Safety and Biosecurity

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The public health practice major brings together the science and art of public health. Students in the public health certificate programs choose either a broad background in core public health competencies or a focus area of public health based on their academic goals in population science. The Focus Area Curriculum gives the student the opportunity to investigate specific public health applications. Students are required to choose across four goals incorporating public health practice domains as established by the Council on Linkages found at <http://trainingfinder.org/competencies/>:

1. Public policy development using a systems framework;
2. Interventions based on the dimensions of community and culture;
3. Assessment and application of basic public health sciences; and
4. Program management and communications principles.

#### Sub-competencies: Public Health Certificate in Food Safety and Biosecurity

The PHCert-FSB Program focuses on public health knowledge, skills and attitudes to protect the health and well being of the community through a safer food supply. Coursework incorporates public health practice domains established by the Council on Linkages found at <http://trainingfinder.org/competencies/> and emergency preparedness competencies for all public health workers (<http://cpmcnet.columbia.edu/dept/nursing/institute-centers/chphsr/COMPETENCIES.pdf>). The courses are the basis for designing, conducting, analyzing, and evaluating programs from which insights may be drawn to protect community health through a safe food supply.

Competency Area		
Specific Competencies	Learning Opportunities	Evaluation Opportunities
<b>Public Health Certificate in Food Safety and Biosecurity</b>		
Promote the concept of food system bio-security as a prerequisite for a safe, abundant, affordable and diverse food supply	<ul style="list-style-type: none"> <li>• Emerging Issues in Infectious Diseases: Avian Influenza; Application of Infectious Disease Epidemiology; Understanding the Emergence of Zoonotic Diseases</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Describe their role in the provision of a safe food supply from farm-to-table	<ul style="list-style-type: none"> <li>• Public Health Law, Food System Biosecurity: Threats; Global Food Systems: various topics</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Describe the importance of preparedness and the components of an effective response to a bio-security threat	<ul style="list-style-type: none"> <li>• Food System Biosecurity: Public and Environmental Health Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Describe the importance of risk communication in the assessment of vulnerabilities and risks, development of a risk management strategy, and preparedness for response in the event of a bio-security break or hoax situation	<ul style="list-style-type: none"> <li>• Principles of Risk Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Describe his/her functional role(s) as part of an interdisciplinary public health team	<ul style="list-style-type: none"> <li>• Food Safety Risk Management</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Identify limits to own knowledge, skill, and authority and identify key system resources for referring matters that exceed these limits	<ul style="list-style-type: none"> <li>• Food System Biosecurity Threats; Food System Biosecurity: Public and Environ. Health Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
Analyze creative problem solving and flexible	<ul style="list-style-type: none"> <li>• Food Safety Risk Assessment: Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Course</li> </ul>

<p>Apply creative problem solving and flexible thinking to unusual challenges within his/her functional responsibilities and evaluate effectiveness of all actions taken</p>	<p>Food Safety; Risk Assessment; Applications of Microbiology to Food Monitoring; Advances in Molecular Epidemiological Analysis; Food System Biosecurity Threats; Food System Biosecurity: Public and Environ. Health Problem Solving</p>	<p>Course evaluations • Examinations</p>
<p>Recognize the influence of cultural and social factors in food safety practices</p>	<ul style="list-style-type: none"> <li>• Surveillance of Foodborne Diseases in Humans;</li> <li>• Surveillance of Foodborne Diseases in Animals and</li> <li>• Plants; Surveillance of Foodborne Diseases and Food Safety Hazards; Application of Infectious Disease Epi</li> </ul>	<ul style="list-style-type: none"> <li>• Course evaluations</li> <li>• Examinations</li> </ul>
<p><b>Relationship to Core Public Health Domains (examples)</b></p>		
<p>Courses in Public Health Policy &amp; Systems Development</p>		
<ul style="list-style-type: none"> <li>• Public Health Law; Global Food System (various topics); Infectious Disease Prevention and Control; Politics and Public Health Policy; Food Labeling and Nutrition Law</li> </ul>		
<p>Courses in Community Intervention</p>		
<ul style="list-style-type: none"> <li>• Food Systems Biosecurity Action Planning</li> </ul>		
<p>Courses in Assessment and Basic Sciences</p>		
<ul style="list-style-type: none"> <li>• Applications of Microbiology to Food Systems Monitoring; Understanding the Emergence of Zoonotic Diseases; Surveillance of Foodborne Disease in Humans; Surveillance of Foodborne Diseases in Animals and Plants; Surveillance of Foodborne Diseases and Food Safety Hazards; Food Safety Risk Assessment; Advances in Molecular Epidemiological Analysis; Emerging Infectious Disease: Avian Influenza; Epidemiology and Ecology of Mycobacterial Diseases; Global Studies in Infectious Disease</li> </ul>		
<p>Courses in Program Management and Communications</p>		
<ul style="list-style-type: none"> <li>• Principles of Risk Communication; Food Safety Risk Management</li> </ul>		

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