Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 Association of Schools of Public Health (ASPH) Core Competencies: July 2006

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
Domain: Biostatistics						
1 Describe the roles biostatistics serves in the discipline of public health.				X		
2. Describe basic concepts of probability, random variation, and commonly used statistical probability distributions.				X		
3. Describe preferred methodological alternatives to commonly used statistical methods when assumptions are not met.				X		
4. Distinguish among the different measurement scales and the implications for selection of statistical methods to be used based on these distinctions.				X		
5. Apply descriptive techniques commonly used to summarize public health data.				X		X
6. Apply common statistical methods for inference.				X		

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
7. Apply descriptive and inferential methodologies according to the type of study design for answering a particular research question.	X			X		
8. Apply basic informatics techniques with vital statistics and public health records in the description of public health characteristics and in public health research and evaluation.						X
9. Interpret results of statistical analyses found in public health studies.						X
10. Develop written and oral presentations based on statistical analyses for both public health professionals and educated lay audiences.						X/Y
Domain: Environmental Health Sciences						
1. Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents.					X	
2. Describe genetic, physiologic and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.					X	

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
3. Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues.					X	
4. Specify current environmental risk assessment methods.					X	
5. Specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety.					X	
6. Explain the general mechanisms of toxicity in eliciting a toxic response to various environmental exposures.					X	
7. Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity.					X	
8. Develop a testable model of environmental insult.					X	
Domain: Epidemiology						
1. Identify key sources of data for epidemiologic purposes.	X					
2. Identify the principles and limitations of public health screening programs.	X					X

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
3. Describe a public health problem in terms of magnitude, person, time and place.	X					
4. Explain the importance of epidemiology for informing scientific, ethical, economic and political discussion of health issues.	X					
5. Comprehend basic ethical and legal principles pertaining to the collection, maintenance, use and dissemination of epidemiologic data.	X	X				
6. Apply the basic terminology and definitions of epidemiology	X.					
7. Calculate basic epidemiology measures.	X					
8. Communicate epidemiologic information to lay and professional audiences.	X					
9. Draw appropriate inferences from epidemiologic data.	X					
10. Evaluate the strengths and limitations of epidemiologic reports.	X					X
Domain: Health Policy and Management						
1. Identify the main components and issues of the organization, financing and delivery of health services and public health systems in the US.						X/Y

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
2. Describe the legal and ethical bases for public health and health services.		X	X			X/Y
3. Explain methods of ensuring community health safety and preparedness.			X			X
4. Discuss the policy process for improving the health status of populations.						X/Y
5. Apply the principles of program planning, development, budgeting, management and evaluation in organizational and community initiatives.						X/Y
6. Apply principles of strategic planning and marketing to public health.						X/Y
7. Apply quality and performance improvement concepts to address organizational performance issues.						X/Y
8. Apply "systems thinking" for resolving organizational problems.			X			X/Y
9. Communicate health policy and management issues using appropriate channels and technologies.						X/Y
10. Demonstrate leadership skills for building partnerships.						X/Y

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
Domain: Social and Behavioral Sciences						
1. Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice.			X			X/Y
2. Identify the causes of social and behavioral factors that affect health of individuals and populations.			X		X	X
3. Identify individual, organizational and community concerns, assets, resources and deficits for social and behavioral science interventions.			X			X
4. Identify critical stakeholders for the planning, implementation and evaluation of public health programs, policies and interventions			X			X/Y
5. Describe steps and procedures for the planning, implementation and evaluation of public health programs, policies and interventions.			X			X/Y
6. Describe the role of social and community factors in both the onset and solution of public health problems.			X		X	X/Y

Appendix 2.6.b.i. Core Public Health Courses at the School Mapped to Version 2.2 ASPH Core Competencies: July 2006 *(continued)*

ASPH Competency Statement	Epidemiology (6320)	Ethics (6741/6742)	Soc/ Behavioral Sciences (6020)	Biostatistics (6414)	Environmental Health (6101/6102)	Management (6752/6751)
7. Describe the merits of social and behavioral science interventions and policies.						X
8. Apply evidence-based approaches in the development and evaluation of social and behavioral science interventions.			X			X/Y
9. Apply ethical principles to public health program planning, implementation and evaluation.		X				X/Y
10. Specify multiple targets and levels of intervention for social and behavioral science programs and/or policies.			X			X/Y