College of Veterinary Medicine Master of Public Health Program

## **Certificate in Public Health Core Competencies and Course Alignment Matrix**

Core Competencies (See key below for course titles)	MPH 754 OR MPH 708 &	MPH 802	МРН 720	MPH 818	MPH 701
Dischetistics. Apply description and informatic mathedalacies for	MPH 854				
<b>Biostatistics:</b> Apply descriptive and inferential methodologies for					Р
testing specific public health or research hypotheses according to the					Р
type of study design and measurement scale. Biostatistics: Apply basic informatics techniques in the acquisition of					
					Р
public health data and in the analysis of survey and experiential					Р
designs.					
Environmental Health: Describe genetic and physiological factors					
that affect health outcomes following exposure to environmental		Р			
hazards.					-
Environmental Health: Explain the general mechanisms of toxicity in		Р			
eliciting an adverse response to various environmental exposures.					
Environmental Health: Describe current environmental risk					
assessment methods, and be able to specify approaches for		Р			
assessing, preventing, and controlling environmental hazards that					
pose risks to human health and safety.					
Epidemiology: Properly calculate and use measures of disease,					
injuries, and death in human populations (e.g., prevalence, incidence,					
relative risk, attributable risk, population attributable risk, etc.) to	Р				
describe problem magnitude; and to investigate associations to such	•				
consideration as age, gender/sex, race, occupation, social					
characteristics, diet, and environment.					
Epidemiology: Draw appropriate inferences from epidemiologic	Р				
data, and identify the data's strengths and limitations.	٢				
Epidemiology: Comprehend basic ethical and legal principles					
pertaining to the collection, maintenance, use, and dissemination of	Р				
epidemiological data.					
Health Services Administration: Recognize how the roles and					
interaction between various stakeholders in the healthcare system					
(including health care providers, other members of the healthcare			Р		
workforce, consumers of healthcare, etc.) impact the accessibility of					
healthcare.					
Health Services Administration: Describe the demographic trends					1
which impact healthcare, and in turn, public health in the United			Р		
States.					
Social and Behavioral Sciences: Identify basic theories, concepts,					
and models from a range of social and behavioral disciplines that are				Р	
used in public health intervention and policies.					
Social and Behavioral Sciences: Identify the causes of social and				1	1
behavioral factors that affect the health of individuals and				Р	
populations with specific emphasis on underserved populations.					

P=Primary Course; R=Reinforcing Course

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## **Key to Course Titles**

MPH Core Course List					
Course #	Course Title	Course #	Course Title		
MPH 708	Veterinary Epidemiology	MPH 720	Administration of Health Care Organizations		
MPH 754	Introduction to Epidemiology	MPH 818	Social and Behavioral Bases of Public Health		
MPH 802	Environmental Health	MPH 701	Fundamentals and Methods of Biostatistics		
MPH 854	Intermediate Epidemiology				