BIOSTATISTICS AND EPIDEMIOLOGY, MPH

The MPH in Biostatistics and Epidemiology program is grounded in core public health
knowledge and science. The program aims to prepare public health professionals who can
effectively collaborate with public health agencies, non-profit organizations, and community
members to identify and mitigate health issues aimed at preventing public health
epidemics/pandemics. Upon graduation students will be proficient in applying principles of
epidemiology and biostatistics to solve complex public health problems at local, state, and
global levels. The graduates of the program will pursue careers in public health agencies,
research institutions, academia, healthcare, and non-profit organizations.

Upon completion of the program, the graduate will be able to:

1. Explain the critical importance of evidence in advancing public health knowledge, practice, and ethics.
2. Select and apply quantitative and qualitative data collection methods appropriate for a given public health context, and analyze data using biostatistics, informatics, and computer-based programming software.
3. Interpret results of data analysis for public health research, policy, or practice, communicate the results with diverse groups of professional colleagues and public health constituents, and recommend solutions.

Requirements

Code	Title	Credits
PH-601	Public Health Systems and Practice	3
PH-605	Behavioral and Social Aspects of Public Health	3
PH-640	Environmental and Occupational Health	3
PH-650	Health Policy and Management	3
PH-660	Principles of Biostatistics	3
PH-661	Biostatistics II	3
PH-690	Global Health	3
PH-705	Principles of Epidemiology	3
PH-771	Epidemiological Research Methods I	3
PH-772	Epidemiological Research Methods II	3
PH-775	Public Health Geographic Information Systems	3
PH-776	Public Health Surveillance Methods	3
PH-785	Culminating Experience in Public Health	3
KG-604	Graduate Research & Critical Analysis	3
Open Elective (PH-780, CS-617 or CS-628)		3
Total Credits		**45**

Recommended Sequence

Course	Title	Credits
Semester 1		
PH-601	Public Health Systems and Practice	3
PH-605	Behavioral and Social Aspects of Public Health	3
PH-660	Principles of Biostatistics	3
KG-604	Graduate Research & Critical Analysis	3
	Credits	**12**
Semester 2		
PH-640	Environmental and Occupational Health	3
PH-650	Health Policy and Management	3
PH-661	Biostatistics II	3
PH-705	Principles of Epidemiology	3
	Credits	**12**
Semester 3		
PH-690	Global Health	3
PH-771	Epidemiological Research Methods I	3
PH-775	Public Health Geographic Information Systems	3
PH-776	Public Health Surveillance Methods	3
	Credits	**12**
Semester 4		
PH-772	Epidemiological Research Methods II	3
PH-785	Culminating Experience in Public Health	3
Select one of the following:		3
PH-780	Internship in Public Health	
CS-617	Statistical Computing	
CS-628	Data Science	
	Credits	**9**
	Total Credits	**45**