

## PUBLIC HEALTH INFORMATICS MCGS

All students must meet the Requirements for the micro-Certificate of Graduate Study.

### OVERVIEW

Epidemiology is often called the “language” of public health, and is the foundation science of public health programs. Epidemiology has many uses and applications. The Centers for Disease Control and Prevention describes epidemiology as “the study of the origin and causes of diseases in a community. It is the scientific method of investigation problem-solving used by disease detectives: epidemiologists, laboratory scientists, statisticians, physicians and other health care providers, and public health professionals—to get to the root of health problems and outbreaks in a community.” (CDC. The Importance of Epidemiology 2011).

This micro-Certificate of Graduate Study in Public Health Informatics is an online and concise, 3-course (9 graduate credits) introduction into the field of health informatics, epidemiology, and related quantitative population health science. Completing this course of study will provide students with introductory competency in public health informatics and quantitative public health sciences.

The program is designed for medical and graduate students, health practitioners, public health professionals and researchers, and others who wish to increase their knowledge in the vital field of epidemiology. It also prepares graduates for advanced study at the master's and doctoral level.

### SPECIFIC REQUIREMENTS

#### REQUIREMENTS FOR ADMISSION TO GRADUATE STUDIES FOR THE MICRO-CERTIFICATE OF GRADUATE STUDY

Students are required to have a bachelor’s degree from an accredited college or university, and have completed 1 college-level course in mathematics and 1 college-level course in science.

#### MINIMUM DEGREE REQUIREMENTS

The Graduate Micro-Certificate in Public Health Bioinformatics requires 9 credits including 2 courses (6 credits) from 2 core content areas and 1 elective course (3 credits) from an approved list of electives.

2 required core competency courses:		
PH 6020	Epidemiology I	3
PH 6240	Public Health Informatics	3
Choose 1 elective course from the list of approved electives, including but not limited to:		
PH 5000	Controversies in Public Health	
PH 6010	Public Health & Health Policy	

PH 6030	Biostatistics I:App Rsch in PH	
PH 6040	Environmental Public Health	
PH 6060	Social&Behavioral Public Hlth	
PH 6070	Epidemiology 2	
PH 6080	Environmental Public Health 2	
PH 6090	Public Health Biostatistics II	
PH 6100	Public Health Law and Ethics	
PH 6110	Global Public Health	
PH 6120	Food Systems & Public Hlth	
PH 6140	Environmental Risk & Risk Comm	
PH 6150	Public Health Surveillance	
PH 6160	Social Determinants of Health	
PH 6180	Improving Health in Population	
PH 6200	Public Health Communications	
PH 6210	Controversies in HlthEconomics	
PH 6211	Global Health Leadership	
PH 6220	One Health: Zoonoses	
PH 6250	Investigating DiseaseOutbreaks	
PH 6260	Legal Issues in Health Care	
PH 6270	Climate Change & Human Health	
PH 6280	Health in Humanitarian Crises	
PH 6310	Climate Change Emergencies	
PH 6320	Maternal and Child Health	
PH 6330	Global Mental Health	
PH 6990	Special Topics	