

MPH in Epidemiology

Academic Year 2015-2016

Program Profile

The epidemiology concentration provides a comprehensive curriculum that will cultivate the student's ability to effectively practice in the contemporary epidemiology environment. Core and required courses establish a strong foundation to the fundamental competencies of public health and epidemiology, while electives afford students the flexibility to focus on desired areas of specialization. This allows students new to public health as well as practicing health professionals to customize their coursework to accommodate their interests and careers. The essentials of epidemiology, including research methods and design, statistical analysis and epidemiological investigation are emphasized. Students in the epidemiology concentration will acquire the skills to plan, design and implement research; evaluate existing research methodology; use computerized statistical programs to analyze data; interpret and disseminate the results of epidemiological investigations.

By the conclusion of the MPH program, a student in epidemiology will be able to:

MPH-EPID 1: **Descriptive Epidemiology**- Describe a public health issue in terms of magnitude, person, time, place and the ecological factors and lifespan considerations.

MPH-EPID 2: **Evidence-Based Public Health**-Identify and use sources of epidemiologic data, information, knowledge and evidence as a basis for research, decision-making and evidence-based public health practice.

MPH-EPID 3: **Critical Analysis**- Interpret findings from epidemiologic studies, demonstrating understanding of design, confounding, sources of bias and causality.

MPH- EPID 4: **Analytic Epidemiology**-Demonstrate proficiency in epidemiologic study design, measurement and analysis, including the use of statistical software.

MPH-EPID 5: **Epidemiologic Communication**- Effectively communicate epidemiologic information in a linguistically and culturally appropriate manner to the general public, professionals, policy makers, across social sectors and in inter-professional communication.

MPH-EPID 6: **Ethics**-Comprehend basic principles pertaining to the collection, maintenance, use and dissemination of epidemiologic data.

The Master of Public Health degree program prepares students to address the following core competencies while advancing their knowledge of public health:

Competency	Competency Description
Public Health Knowledge & Skills	The MPH student will apply basic knowledge and skills of the core public health sciences that include: biostatistics, epidemiology, health management and policy, behavioral and community health, and environmental and occupational health, to the prevention of illness and injury and the promotion of population health.
Integration of Theory and Practice	The MPH student will demonstrate the effective integration of theory and practice related to public health issues that affect diverse populations, through a thesis or comprehensive examination and a practice experience.
Communication and Informatics	The MPH student will gather, organize, and manage data and information effectively to address public health issues through oral and written communications to diverse professionals and lay audiences.
Diversity and Culture	The MPH student will demonstrate the ability to interact with both diverse individuals and communities to produce or impact an intended public health outcome.
Professionalism	The MPH student will apply ethical principles to the practice of public health in a variety of settings, demonstrating personal integrity while embracing diverse communities.

**Master of Public Health: Epidemiology
Concentration Planning Form (48 Credit Hours Required)
Full-Time – Fall Admission**

Student		Advisor		
Email		Semester of CPH		
Mobile Phone		Semester of Comprehensive Exam		
Semester Program Began		Expected Graduation Term		
Semester Initiated Practice Experience		Completed Practice Experience Requirements		
Practice Site		Practice Supervisor		
Fall		SCH	Term	Grade (or AP)
BACH 5300	Theoretical Foundations of Individual and Community Health	3		
BIOS 5300	Principles of Biostatistics	3		
EPID 5300	Principles of Epidemiology	3		
EPID 5313	Introduction to Data Management and Statistical Computing	3		
PHED 5197	Professional and Academic Development	0.5		
Spring		12.5		
BIOS 5310	Intermediate Biostatistics	3		
EPID 5310	Intermediate Epidemiology	3		
EOHS 5300	Environmental Determinants of Health	3		
HMAP 5300	Introduction to Health Management and Policy	3		
PHED 5197	Professional and Academic Development	0.5		
Summer		12.5		
EPID **	Elective (or switch Elective and Year 1 Spring HMAP 5300)	3		
Fall		3.0		
EPID 5314	Applied Data Analysis in Epidemiology	3		
EPID 5320*	Infectious Disease Epidemiology or Elective	3		
EPID 5312	Survey Research & Questionnaire Design	3		
PHED 5197	Professional and Academic Development	0.5		
PHED 5000	Certified in Public Health (CPH) Exam	0		
Spring		9.5		
EPID or BIOS	Elective	3		
EPID 5318*	Chronic Disease Epidemiology or Elective	3		
EPID 5297	Public Health Practice Experience	1.5		
EPID or BIOS	Approved Elective	3		
EPID 5001	MPH Comprehensive Exam (Epidemiology)	0		
		10.5		
	Total Degree Hours	48.0		

***Students must complete either EPID 5320 or EPID 5318**

Recommended Epidemiology Electives

EPID 5318 Chronic Disease Epidemiology

EPID 5320 Infectious Disease Epidemiology

**EPID 5391 Topics: Biological Basis for Public Health (For students without clinical or biology background; recommend taking in Year 1 Spring as Elective, and take HMAP 5300 in following Summer term.)

EPID 5391 Topics: Maternal Child Health Epidemiology

EPID 6316 Molecular Epidemiology

EPID 6318 Epidemiologic Surveillance

EPID 6320 Social Epidemiology

EPID 6322 Nutritional Epidemiology

EPID 6324 Cancer Epidemiology

Students may substitute an elective course not on this list with prior written approval of their advisor.

Reviewed and agreed on this date _____

SPH Advisor _____

Student _____