

# Milken Institute School of Public Health

THE GEORGE WASHINGTON UNIVERSITY

Department of Global Health

Masters of Public Health  
Global Health Epidemiology and Disease Control

Program-at-a-Glance  
2019-2020

## Program Director:

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## Mission:

The mission of the Global Health Epidemiology and Disease Control Program is to prepare the next generation of global health professionals to develop and rigorously appraise programs for the control of infectious and chronic diseases as well as injuries informed by a thorough assessment of the best available evidence. This will provide students with requisite skills to effectively contribute to improved program performance, and better decisions and policies for investment of scarce resources in low and middle income countries and in underserved communities around the world.

## Goals:

The goals of the Global Health Epidemiology and Disease Control Program are to prepare students to be applied epidemiologists in public health program implementation and evaluation who know how to:

- Utilize epidemiological tools to generate evidence on interventions targeted to infectious and chronic disease/injury control.
- Work within real-world settings to strengthen methodological rigor of program priority setting and evaluation.
- Generate and use data for assessing burden of disease, determining efficacy and effectiveness of interventions for infectious/chronic diseases and injuries.
- Translate evidence to support program and health systems improvements and policy recommendations.
- Communicate the results of research to a broad set of constituents.

## PROGRAM COMPETENCIES

*Department Competencies and Program-Specific Competencies:*

**1. Apply epidemiological and multi-disciplinary concepts to identify, analyze and address global health challenges including burden of illness and the determinants and distribution disease in populations.**

Relevant courses:

- PUBH 6400 Global Health Frameworks
- PUBH 6247 Design of Health Studies

Updated July 2019

**2. Select the appropriate qualitative and/or quantitative methods depending on the specific research or programmatic need and apply underlying principles to design and conduct such studies including observational and experimental designs, screening programs, and public health surveillance.**

Relevant courses:

- PUBH 6247 Design of Health Studies
- PUBH 6249 Stat Packages/Data Management & Data Analysis
- PUBH 6252 Advanced Epidemiology Methods

**3. Apply appropriate data analysis methods and interpret the results from epidemiological studies.**

Relevant courses:

- PUBH 6247 Design of Health Studies
- PUBH 6249 Stat Packages/Data Management & Data Analysis
- PUBH 6252 Advanced Epidemiology Methods

**4. Interpret and critique research and best practices to inform the development of evidence-based solutions for global health challenges.**

Relevant courses:

- PUBH 6247 Design of Health Studies
- PUBH 6252 Advanced Epidemiology Methods
- PUBH 6486 Global Health Programs and Approaches to the Control of Infectious Diseases
- PUBH 6492 Global Health Programs and Approaches to the Control of Chronic Diseases

**5. Communicate evidence on global health topics to a variety of audiences including technical experts, policymakers, lay audiences, and other relevant stakeholders.**

Relevant courses:

- PUBH 6400 Global Health Frameworks
- PUBH 6015 Culminating Experience

**6. Work in a multidisciplinary team to identify and address the ethical issues of global health programs, policies and research.**

Relevant courses:

- PUBH 6416 Ethical and Cultural Issues in Global Health Research and Programs
- PUBH 6400 Global Health Frameworks

**7. Engage with diverse individuals, organizations, and communities with respect for different values, beliefs and practices.**

Relevant courses:

- PUBH 6416 Ethical and Cultural Issues in Global Health Research and Programs

**8. Analyze multilevel determinants of problems in global health that form the basis for disease control strategies and interventions.**

Relevant courses:

- PUBH 6400 Global Health Frameworks
- PUBH 6486 Global Health Programs and Approaches to the Control of Infectious Diseases
- PUBH 6492 Global Health Programs and Approaches to the Control of Chronic Diseases

**Program Requirements:**

**Please make sure to follow the program guide for the academic year in which you matriculated into the program.**

MPH students who select the MPH in Global Health Epidemiology and Disease Control enroll in Core Courses (19 credits), Program-Specific Courses (16 credits), and general electives (10 credits). The total 45 credit degree program also includes a Culminating Experience (2 credits) where students apply their didactic education in a real world setting.

Note that due to overlap of content with PUBH 6486, PUBH 6234 is NOT permitted as an elective for students in the MPH in Global Health Epidemiology and Disease Control

**Departments of Global Health and  
Epidemiology & Biostatistics  
Global Health Epidemiology and Disease Control  
MPH  
Program Requirements 2019-2020**

<b>Course Number</b>	<b>Course Name</b>	<b>Credits</b>	<b>Semester Offered</b>	<b>Grade</b>
<b>REQUIRED MPH CORE COURSES (19 CREDITS)</b>				
PUBH 6002	Biostatistical Applications for Public Health	3	Fall, Spring, Summer	
PUBH 6003	Principles and Practice of Epidemiology	3	Fall, Spring, Summer	
PUBH 6007	Social and Behavioral Approaches to Public Health	2	Fall, Spring, Summer	
PUBH 6009	Fundamentals of Program Evaluation	2	Fall, Spring, Summer	
PUBH 6011	Environmental and Biological Foundations of Public Health	3	Fall, Spring, Summer	
PUBH 6012	Fundamentals of Health Policy: Public Health and Healthcare	2	Fall, Spring, Summer	
PUBH 6021	Leading Self and Teams in Public Health	1	Fall, Spring, Summer	
PUBH 6022	Managing Organizations and Influencing Systems in Public Health	1	Fall, Spring, Summer	
PUBH 6023	Interprofessional Education Experience	0	Fall, Spring, Summer	
PUBH 6015	Culminating Experience	2	Fall, Spring, Summer	
<b>Total</b>	<b>Core Credits</b>	<b>19</b>		
<b>REQUIRED PROGRAM SPECIFIC COURSES (16 CREDITS)</b>				
PUBH 6400	Global Health Frameworks	2	Fall	
PUBH 6247	Design of Health Studies	3	Fall, Spring	
PUBH 6252	Advanced Epidemiologic Methods <i>Prerequisite: PubH 6247</i>	3	Fall, Spring	
PUBH 6249	Stat Packages/Data Management & Data Analysis	3	Fall, Spring	
PUBH 6416	Ethical and Cultural Issues in Global Health Research and Programs	1	Fall, Spring	
PUBH 6486	Global Health Programs and Approaches to the Control of Infectious Diseases <i>Prerequisite: PubH 6003</i>	2	Fall	
PUBH 6492	Global Health Programs and Approaches to the	2	Fall	

	Control of Chronic Diseases <i>Prerequisite: PubH 6400 and PubH 6003</i>			
<b>Total</b>	<b>Total Program Required Credits</b>	<b>16</b>		
<b>ELECTIVE COURSES</b>				
<b>A minimum of 10 credits – any PUBH graduate course. Sample list below:</b>				
PUBH 6563	Global Child Health	2	Fall	
PUBH 6484	Prevention and Control of Vector Borne Diseases	2	Fall	
PUBH 6487	Emerging Zoonotic Diseases and Global Food Production	1	Fall	
PUBH 6245	Infectious Disease Epidemiology	2	Spring	
PUBH 6250	Epidemiology of HIV/AIDS	2	Fall	
PUBH 6499	Field Trial Methods and Application	1	Fall	
PUBH 6240	Pediatric HIV/AIDS	1	Summer 1	
PUBH 6270	HIV/AIDS Surveillance	1	Fall	
PUBH 6255	Organizational Responses to the Local, National, and Global HIV/AIDS Epidemics	2	Spring	
PUBH 6259	Epidemiologic Surveillance in Public Health	2	Spring	
PUBH 6244	Cancer Epidemiology	2	Spring	
PUBH 6481	Global Mental Health	2	Spring	
PUBH 6269	Reproductive and Perinatal Epidemiology	1	Summer 1	
PUBH 6262	Introduction to Geographical Information Systems	1	Fall, Spring, Summer 1	
PUBH 6480	Public Health in Complex Emergencies	2	Fall	
PUBH 6132	Design, Implementation, and Evaluation of Global Water, Sanitation, and Hygiene (WASH) Programs	1	Fall	
PUBH 6242	Clinical Epidemiology and Decision Analysis	2	Spring	
PUBH 6243	Topics in Clinical Epidemiology	1	Spring	
	Other selected PUBH graduate electives may be used to satisfy this requirement.			
<b>Total</b>	<b>Total Elective Credits</b>	<b>10</b>		

	<b>TOTAL DEGREE CREDITS</b>	<b>45</b>	
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### Advising Tips

Always see your advisor for course scheduling and sequencing strategies, but remember that proper course selection, fulfilling requirements, and on-time graduation are your responsibilities.

The Master of Public Health (MPH) curriculum consists of four types of courses (45 credits):

As an accredited School of Public Health, students in all GWSPH MPH programs are also required to fulfill both an interprofessional team experience and an applied practice experience. GWSPH has incorporated these requirements into the curriculum as follows:

#### Interprofessional Education (IPE) Experience:

- Following (or simultaneous to) enrollment in PUBH 6021 *Essentials in Public Health Practice & Leadership 1: Leading Self and Teams* (1-credit), students will be required to select an IPE experience from a host of options provided throughout your enrollment as a MPH student to participate in a one-time, case-based or activity-based learning experience. The IPE experience is a way to experience working with people from other professions/programs outside of public health. Students will have many opportunities to register for this zero-credit (no fee) IPE ‘class’ (PUBH 6023- *Interprofessional Education Experience*) and will receive credit upon successful completion.

#### Applied Practice Experience (Practicum):

- The applied practice experience allows each student to individually demonstrate attainment of public health competencies. Information about the Practicum will be introduced in PUBH 6021 so students may begin planning for their practice experience. As a part of the content of PUBH 6022 *Essentials in Public Health Practice & Leadership 2: Managing Organizations & Influencing Systems* (1-credit), detailed information and an introduction to the necessary tools will be provided. Students are required to fulfill all requirements of the 120 hour Practicum experience to receive credit for this PUBH 6022.

### Graduation Requirements

1. **Graduate Credit Requirement:** 45 graduate credits are required.
2. **Course Requirements:** Successful completion of the Core Courses and the Program-Specific Courses are required.
3. **Practicum Requirement:** Students are required to fulfill all requirements of the Applied Practice Experience (Practicum) to receive credit for PUBH 6022.
4. **Interprofessional Education Experience (IPE):** Students are required to enroll and participate in an authorized IPE activity (PUBH 6023).
5. **Grade Point Requirement:** A 3.0 (B average) overall grade point average is required.
6. **Time Limit Requirement:** The degree must be completed within five years.
7. **Transfer Credit Policy:** Up to 12 graduate credits that have not been applied to a previous graduate degree may be transferred to the MPH upon approval. Credits must have been earned from an accredited institution in the last 3 years with a grade point of 3.0 or better.
8. **CITI Training requirement:** All students are required to complete training regarding human subject protection regulation and the Health Insurance Portability and Accountability Act of 1996 (HIPAA). To fulfill this requirement, you must complete the Collaborative IRB Training Initiative (CITI) Course in The Protection of Human Research Subjects.
9. **Integrity Quiz & Plagiarism requirement:** All students are required to review the George Washington University Code of Academic Integrity and take the quiz within their first semester of study. The Code of Integrity and step-by-step instructions can be found here: <http://publichealth.gwu.edu/integrity>
10. **Professional Enhancement requirement:** Students must participate in 8 hours per degree program of advisor pre-approved Public Health-related lectures, seminars, and symposia, related to your field of study. Students must submit documentation of Professional Enhancement activities to the Office of Student

Records. The documentation consists of the Professional Enhancement Form  
<http://publichealth.gwu.edu/academics/forms>