

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

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 Epidemiologic Methods 1 Design of Health Studies

- PUBH 6853 Stat Packages/Data Management & Data Analysis
- PUBH 6252 Epidemiologic Methods 2 Advanced Epidemiologic Methods

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

Relevant courses:

- PUBH 6247 Epidemiologic Methods 1 Design of Health Studies
- PUBH 6853 Stat Packages/Data Management & Data Analysis
- PUBH 6252 Epidemiologic Methods 2 Advanced Epidemiologic 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 Epidemiologic Methods 1 Design of Health Studies
- PUBH 6252 Epidemiologic Methods 2 Advanced Epidemiologic 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 6047 Systematic reviews to synthesize evidence in public health practice

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 or PUBH 6423 Ethics in Public Health Practice and Policy
- 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 or PUBH 6423 Ethics in Public Health Practice and Policy

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 (17 credits), and general electives (9 credits). The total 45 credit degree program 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

IPE/APEX

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 (PUBH 6023):

MPH students are required to select an IPE experience from a host of options provided throughout enrollment to participate in a one-time, case-based or activity-based learning experience. The IPE experience is a way to actively participate in a supervised environment to work with people from other professions/programs outside of public health. Students are eligible to enroll in the IPE upon successful completion of most of the MPH core coursework including: PUBH 6002, 6003, 6007, 6011, 6012 and 6021. Students will have many opportunities to register for this zero-credit (no fee) IPE course (PUBH 6023- Interprofessional Education Experience) and will receive credit upon successful completion. See <https://publichealth.gwu.edu/content/interprofessional-education-gwsph>.

Applied Practice Experience (Practicum & EPR) (PUBH 6000):

The Applied Practice Experience (APEX) may be satisfied with either a practicum or, for experienced public health professionals, through an expedited portfolio review (EPR). The practicum is a planned, supervised, and evaluated practice experience that aims to provide students with an opportunity to synthesize, integrate, and apply practical skills, knowledge, and training learned through courses, to gain applied experience in a professional public health work environment, and to work on public health practice projects that are of particular interest to you.

Information about the Practicum will be introduced through school-wide Practicum Information Sessions held by the Office of Applied Public Health and through meetings with your department practicum staff and faculty. During the practicum, you will work at least 120 hours in the field under the supervision of the site preceptor who has agreed to directly supervise the work you are conducting. Students are required to fulfill all requirements of the 120-hour practicum to receive credit for PUBH 6000.

If you have had prior work experience, then you will find that the practicum provides the opportunity to hone skills or to gain new experience in a different area. However, if you have substantial public health experience relevant to your department/track, including 5+ years of full-time public health work for students after receiving your undergraduate degree, or 3+ years of full-time work for students who already have a graduate degree prior to beginning the MPH, then you may be able to satisfy the APEX requirement through an EPR instead of doing the practicum, with advanced approval by your department's practicum team.

- Note: before completing the 120 hours practicum experience Global Health Epidemiology and Disease Control students must fulfill the following pre-requisites: 6002, 6003, 6400, 6416, 6247, 6853

Milken Institute School of Public Health

THE GEORGE WASHINGTON UNIVERSITY

Department of Global Health

Master of Public Health
Global Health Epidemiology
and

Disease Control
Program-at-a-Glance

2022-2023

Begin Planning Your Culminating Project 11-12 Months Prior to Program Completion

Required Core Courses (19 credits)

Course#	Required Core Course	Credits	Semesters Offered		Grade
			Residential	Online	
PUBH 6002	Biostatistical Applications for Public Health	3	Fall, Sp, Sum	All	
PUBH 6003	Principles and Practice of Epidemiology	3	Fall, Sp, Sum	All	
PUBH 6007	Social and Behavioral Approaches to Public Health	2	Fall, Sp, Sum	All	
PUBH 6009	Fundamentals of Program Evaluation (Prerequisite: 6007)	2	Fall, Sp, Sum	All	
PUBH 6011	Environmental and Biological Foundations of Public Health	3	Fall, Sp, Sum	All	
PUBH 6012	Fundamentals of Health Policy: Public Health and Healthcare	2	Fall, Sp, Sum	All	
PUBH 6021	Essentials of Public Health Practice and Leadership I: Leading Self and Teams in Public Health	1	Fall, Sp, Sum	All	
PUBH 6022	Essentials of Public Health Practice and Leadership II: Managing Organizations and Influencing Systems in PH Prerequisite: PUBH 6021	1	Fall, Sp, Sum	All	
PUBH 6023	Interprofessional Education Experience	0	Fall, Sp, Sum	All	
PUBH 6418	GH Culminating Experience I: Proposal Development	1	Fall, Sp, Sum		
PUBH 6419	GH Culminating Experience II (prerequisite 6418)	1	Fall, Sp, Sum		
PUBH 6000	MPH Applied Practice Experience	0	Fall, Sp, Sum	n/a	
Total Core Credits		19			

Required Program-Specific Courses (17 credits)

Course #	Required Departmental Courses	Credits	Semesters Offered		Grade
			Residential	Online	
PUBH 6400	Global Health Frameworks	2	Fall	Fall, Sp2	
PUBH 6247	Epidemiologic Methods 1: Design of Health Studies	3	Fall, Sp		
PUBH 6252	Epidemiologic Methods 2 Advanced Epidemiologic Methods (Prerequisite: PUBH 6247)	3	Fall, Sp		

PUBH 6853	Stat Packages/ Data Management & Data Analysis	3	Fall, Sp		
PUBH 6416 OR PUBH 6243	Ethical and Cultural Issues in Global Health Research and Programs OR PUBH 6423: Ethics in Public Health Practice & Policy	1	Fall, Spr, Summer		
PUBH 6047	Systematic reviews to synthesize evidence in public health practice	1	Fall		
PUBH 6486	Global Health Programs and Approaches to the Control of Infectious Diseases (Prerequisite: PUBH 6003)	2	Fall	Fall, Sp2	
PUBH 6492	Global Health Programs and Approaches to the Control of Chronic Diseases (Prerequisite: PUBH 6400, 6003)	2	Fall		
Total Program Required Credits		17			
ELECTIVE COURSES					
A minimum of 9 credits- any PUBH graduate course					
Total Elective credits		9			
Total Degree Credits		45			

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. **Applied Practice Experience (APEX) Requirement:** Students are required to fulfill all requirements of the Applied Practice Experience (Practicum) to receive credit for PUBH 6000.
4. **Interprofessional Education Experience (IPE):** Students are required to enroll, participate, and complete 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 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>

The Department of Global Health
Global Health Epidemiology and Disease Control MPH Program
Course Mapping Example
2022-2023

The following are advising tips relating to course sequencing:

- All students must take PUBH 6400 *Global Health Frameworks*, PUBH 6003 *Principles and Practice of Epidemiology*, and PUBH 6002 *Biostatistical Applications for Public Health* during their first fall semester. These are prerequisites for many required and elective courses. Failure to take these courses in your first semester will delay your plan of study.
- PUBH 6247 *Design of Health Studies* is a prerequisite for PUBH 6252 *Advanced Epidemiological Methods*
- PUBH 6003 *Principles and Practices of Epidemiology* and PUBH 6400 *Global Health Frameworks* are prerequisites for PUBH 6486 *Global Health Programs and Approaches to the Control of Infectious Diseases* and
- PUBH 6003 *Principles and Practices of Epidemiology* and PUBH 6400 *Global Health Frameworks* are prerequisites for PUBH 6492 *Global Health Programs and Approaches to the Control of Chronic Diseases*
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The Global Health Epidemiology and Disease Control program contains a total of 9 elective credits that can be chosen from any PUBH graduate-level course. Elective courses are often offered once per year, so students should plan which courses to take in advance. The ‘Elective Course(s)’ credits listed in the below course maps indicate the suggested distribution of these elective credits, but students can choose to distribute them however they feel fit. Students are advised to work with their advisor when deciding on electives.

Example 1: This schedule is fast paced and suggested for students that are confident in their academic and quantitative abilities. This schedule allows for students to spend their final spring semester working domestically or abroad.

1 st year Fall		1 st year Spring		1 st year Summer	
	Credits		Credits		Credits
6400 Global Health Frameworks	2	6007 Social & Behavioral Approaches to Health	2	6009 Fundamentals of Program Evaluation	2
6002 Biostatistical Applications for Public Health	3	6247 Epidemiologic Methods 1 Design of Health Studies	3	6011 Environmental and Biological Foundations of Public Health	3
6003 Principles and Practice of Epidemiology	3	6853 Stat Packages/Data Management & Data Analysis	3	Elective(s)	2
6012 Fundamentals of Health Policy: Public Health and Healthcare	2	Elective(s)	3		
6021 Leading Self and Teams in Public Health	1	6022 Managing Organizations and Influencing Systems in PH	1		
Ethics requirement (6416 or 6243)	1				
Total semester credits	12	Total semester credits	12	Total semester credits	7
2 nd year Fall		2 nd year Spring		2 nd year Summer	
6252 Epidemiologic Methods 2 Advanced Epidemiologic Methods	3	6419 GH Culminating Experience I	1	Many students choose to finish their CE or practical hours over the summer.	
6486 Global Health Programs and Approaches to the Control of Infectious Diseases	2	6023 Interprofessional Education Experience	0		
6492 Global Health Programs and Approaches to the Control of Chronic Diseases	2	Elective(s)	2		
6418 GH Culminating Experience I: Proposal Development	1				
6047 Systematic Reviews to synthesize evidence in public health practice	1				
Elective(s)	2				
Total semester credits	11	Total semester credits	3	Total semester credits	

Example 2: This schedule is slower paced and recommended for students that are working more, just returning to school, or would generally enjoy a slower paced program.

1 st year Fall		1 st year Spring		1 st year Summer	
	Credits		Credits		Credits
6400 Global Health Frameworks	2	Ethics requirement (6416 or 6243)	1	6011 Environmental and Biological Foundations of Public Health	3
6002 Biostatistical Applications for Public Health	3	6247 Epidemiologic Methods 1 Design of Health Studies	3	Elective(s)	2
6003 Principles and Practice of Epidemiology	3	6853 Stat Packages/Data Management & Data Analysis	3	6022 Managing Organizations and Influencing Systems in PH	1
6021 Leading Self and Teams in Public Health	1	6007 Social & Behavioral Approaches to Health	2		
Total semester credits	9	Total semester credits	9	Total semester credits	6
2 nd year Fall		2 nd year Spring		2 nd year Summer	
6252 Epidemiologic Methods 2 Advanced Epidemiologic Methods	3	6012 Fundamentals of Health Policy: Public Health and Healthcare	2	6419 GH Culminating Experience II	1
6486 Global Health Programs and Approaches to the Control of Infectious Diseases	2	6009 Fundamentals of Program Evaluation	2	6023 Interprofessional Education Experience	0
6492 Global Health Programs and Approaches to the Control of Chronic Diseases	2	6418 GH Culminating Experience I: Proposal Development	1		
6047 Systematic Reviews to synthesize evidence in public health practice	1	Elective(s)	5		
Elective(s)	2				
Total semester credits	10	Total semester credits	10	Total semester credits	1

Example 3: Part-time student schedule. This schedule is recommended for part-time students. We recommend that students who will be working full-time attend the program part-time.

1 st year Fall		1 st year Spring		1 st year Summer	
	Credits		Credits		Credits
6400 Global Health Frameworks	2	6002 Biostatistical Applications for Public Health	3	6011 Environmental and Biological Foundations of Public Health	3
6003 Principles and Practice of Epidemiology	3	6247 Epidemiologic Methods 1 Design of Health Studies	3	6007 Social & Behavioral Approaches to Health	2
6021 Leading Self and Teams in Public Health	1				
Total semester credits	6	Total semester credits	6	Total semester credits	5
2 nd year Fall		2 nd year Spring		2 nd year Summer	
6486 Global Health Programs and Approaches to the Control of Infectious Diseases	2	6853 Stat Packages/Data Management & Data Analysis	3	6012 Fundamentals of Health Policy: Public Health and Healthcare	2
6492 Global Health Programs and Approaches to the Control of Chronic Diseases	2	Ethics requirement (6416 or 6243)	1	6009 Fundamentals of Program Evaluation	2
Elective(s)	2	Elective(s)	2	6022 Managing Organizations and Influencing Systems in PH	1
Total semester credits	6	Total semester credits	6	Total semester credits	5
3 rd year Fall		3 rd year Spring		3 rd year Summer	
6252 Epidemiologic Methods 2 Advanced Epidemiologic Methods	3	6418 GH Culminating Experience I: Proposal Development	1	6419 GH Culminating Experience II	1
6047 Systematic Reviews to synthesize evidence in public health practice	1	Elective(s)	3		
Elective(s)	2	6023 Interprofessional Education Experience	0		
Total semester credits	6	Total semester credits	4	Total semester credits	1