

<p>Milken Institute School of Public Health</p> <hr/> <p>THE GEORGE WASHINGTON UNIVERSITY</p>	<p>Department of Environmental & Occupational Health Department of Global Health</p> <p>Master of Public Health Global Environmental Health</p> <p>2025 – 2026</p> <p>Note: All curriculum revisions will be updated immediately on the website http://www.publichealth.gwu.edu</p>
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Program Director

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Mission

The mission of the Global Environmental Health MPH program – a joint program between the Departments of Environmental and Occupational Health and Global Health – is to educate individuals who are committed to working in resource-poor settings and applying analytic skills to prevent or mitigate the adverse impacts of environmental hazards on human health. The program blends foundational knowledge in both environmental and global health, along with advanced skills and training, to prepare students for tackling ongoing global environmental challenges: lack of access to clean water, inadequate sanitation, poor hygiene, household air pollution, solid waste disposal, vector-borne diseases such as malaria, and climate change.

Goals

Our graduates will hold a multidisciplinary knowledge base and skill set that will provide them with a framework for addressing environmental health issues from environmentally mediated disease in the poorest performing regions of the world. They will understand the scientific and cultural foundations of environmental health in order to:

- Assess environmental exposures and understand the effects of these exposures on human health;
- Interpret epidemiologic and other research findings related to global environmental health risks; and
- Assume leadership roles in designing, implementing, and evaluating programs that focus on modification of environmental health-related behaviors at local, regional, national and/or global levels.

Course Requirements

All Milken Institute School of Public Health (SPH) MPH students who select the Global Environmental Health program enroll in Core Courses (19 credits), Program-Specific Courses

(17 credits), and Electives (9 credits). The Core Courses include an Applied Practice Experience (APEX; 2 credits) and a Culminating Experience (2 credits) where students apply their didactic education in a real-world setting.

Program-Specific Competencies

Upon completion of the MPH Program in Global Environmental Health, students should possess the following functional competencies.

- Evaluate observational studies that examine the relationship between environmental or occupational exposures and health, including biases and study limitations
 - Course: PUBH 6121, PUBH 6131
- Conduct and interpret data analyses of environmental or occupational exposures or health outcomes.
 - Course: PUBH 6131, PUBH 6121
- Assess environmental or occupational exposures to evaluate the severity of a chemical, physical, or biological hazard and potential for prevention and control strategies to reduce exposure.
 - Course: PUBH 6131, PUBH 6126
- Apply multidisciplinary perspectives to identify, analyze, and address global health challenges.
 - Course PUBH 6400, PUBH 6411, PUBH 6435
- Synthesize scientific evidence to inform global environmental health policy and reduce and prevent environmental health related disease and injury.
 - Course: PUBH 6128
- Utilize frameworks for the design of culturally acceptable and contextually feasible global health interventions.
 - Course: PUBH 6435

Potential Culminating Experiences (actual projects completed and underway, as well as illustrative examples):

- Exploring Changes in Open Defecation Rates in Sub-Saharan Africa based on National Level Indices
- Cookstoves, Greenhouse Gasses, and Global Climate Change: A Case Study in sub-Saharan Africa
- Water Collection in Rural Sub-Saharan Africa: Do Increases in Access to Protected Sources Lead to a Decrease in Water Collection Times? A Study of 19 Sub-Saharan African Countries
- Examining Household Barriers to Latrine Access in Rural Tanzania
- Integration of WASH Interventions into HIV Treatment Programs in Sub-Saharan Africa
- Changes in Access to Sanitation and Water Supply in 31 Cities of Sub-Saharan Africa: A

Study of Contributing Factors

- Evaluation of a Clean Cookstove Intervention in Nigeria
- Examining the Role of the Health Sector in Reducing Time and Energy Spent Collecting Solid Fuel and Mitigating Health Outcomes Associated with Indoor Air Pollution
- Factors Determining Success or Failure of Market-based Technologies for Environmental Health Hazards in Low- Income Countries.
- The Economics of Collecting, Transporting, and Treating Human Excreta from On-site Sanitation Systems in Urban Settings
- Assessing the Microbial Risks Associated with Animal Wastes from Concentrated Animal Feeding Operations
- Water Quality Assessment of Streams Impacted by Large-scale Poultry Operations

<div>Milken Institute School of Public Health</div> <div>THE GEORGE WASHINGTON UNIVERSITY</div>		<div>Master of Public Health Global Environmental Health 2025 - 2026 Program-at-a-Glance</div>	
Begin Planning Your Culminating Project 11-12 Months Prior to Program Completion			
Required Core Course and Culminating Experience (19 credits)		Credits	Semester Offered
PUBH 6000	MPH Applied Practice Experience	0	Fall, Spring, Summer
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 & Biological Fundamentals of Public Health	3	Fall, Spring, Summer
PUBH 6012	Fundamentals of Health Policy	2	Fall, Spring, Summer
PUBH 6021	Essentials of Public Health Leadership & Practice 1	1	Fall, Spring, Summer
PUBH 6022	Essentials of Public Health Leadership & Practice 2	1	Fall, Spring, Summer
PUBH 6023	Interprofessional Education Experience	0	Fall, Spring, Summer
PUBH 6137	EOH Culminating Experience Part 1	1	Fall
PUBH 6138	EOH Culminating Experience Part 2	1	Spring
Required EOH Specific Courses (11 credits)		Credits	Semester Offered
PUBH 6121	Environmental and Occupational Epidemiology	3	Fall
PUBH 6126	Assessment and Control of Environmental Hazards	3	Fall
PUBH 6128	Global Environmental and Occupational Health	2	Online Spring I, Summer
PUBH 6131	Quantitative Methods in Environmental and Occupational Health	3	Spring
Required GH Specific Courses (6 credits)		Credits	Semester Offered
PUBH 6400	Global Health Frameworks	2	Fall
PUBH 6411	Global Health Qualitative Research Methods	2	Spring, Summer
PUBH 6435	Global Health Program Development & Implementation	2	
Electives (9 credits) – Select from graduate-level PUBH courses*		Credits	Semester Offered
PUBH 6xxx	Electives	9	Fall, Spring, Summer
Total		45	

NOTE: 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:

- Required core courses (PUBH 6000, 6002, 6003, 6007, 6009, 6011, 6012, 6021, 6022, 6023) - 17 credits.
- Required program-specific courses in EOH and Global Health - 17 credits
- Electives from any SPH graduate-level course (6xxx), preferably with a minimum of 4 credits from EOH- or Global Health-focused courses - 9 credits
- A required Culminating Experience (PUBH 6137 and 6138) - 2 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 (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.

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 APEX will be introduced through school-wide APEX 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.

The MPH core courses are designed to provide students with a broad public health context as well as a critical foundation for subsequent coursework. Early completion of these core courses ensures that students will have the base of knowledge to successfully complete the program specific courses and to get as much as possible out of them. As such, entering students are expected to enroll in MPH core courses in accordance with the following guidelines:

- We expect MPH students to complete the MPH core courses in their first year of graduate study (fall/spring/summer), with the exception of the Culminating Experience courses (PUBH 6137 and 6138).
- For Global Environmental Health MPH students who are full-time, it is important to take PUBH 6002 *Biostatistical Applications for Public Health*, 6003 *Principles and Practices of Epidemiology*, 6011 *Environmental and Biological Fundamentals of Public Health*, and 6021 *Essentials in Public Health Practice & Leadership I* in the first semester.

Part-time students (who generally take 5 to 7 credits per semester) will typically concentrate on taking just core courses in their first year, and then take program-specific courses in their second and third years.

In order to help assure that all students complete core courses in the first year of study, Milken Institute SPH will offer all core courses during all three semesters (fall, spring, and summer). This will allow students who wish to complete their MPH degree within two years to do so, and will allow every student to make steady progress toward completing the MPH degree.

We recognize that there may be exceptional circumstances that make it difficult for a student to complete core courses in the first year as outlined above. Any such student should discuss this situation with his or her academic advisor.

For additional information and resources regarding registration, course descriptions, schedule of classes, etc. follow this link: <http://publichealth.gwu.edu/academics/>.

Tables 1 (full-time students) and 2 (part-time students) present sample course schedules for full-time Global Environmental Health MPH students. It is noteworthy that 45 credits are required including core courses (17 credits) and required program specific courses, including 11 EOH and 6 GH credits, 9 elective credits, and the Culminating Experience (2 credits).

Course Descriptions and Registration

Information can be found on the website: <http://publichealth.gwu.edu/academics/>.

MPH Graduation Requirements

1. **Graduate Credit Requirement:** 45 graduate credits are required.
2. **Course Requirements:** Successful completion of the Core Courses (19 credits) and the Program-Specific Courses (18 credits) are required.
3. **Grade Point Requirement:** A 3.0 (B average) program grade point average is required.
4. **Time Limit Requirement:** The degree must be completed within five years.
5. **Practicum Requirement:** Students are required to fulfill all requirements of the Applied Practice Experience.
6. **Interprofessional Education Experience (IPE):** Students are required to enroll and participate in an authorized IPE activity (PUBH 6023).
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. Up to 18 credits may be transferred to the MPH from the Milken Institute SPH Graduate Certificate. 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: <https://publichealth.gwu.edu/integrity>
10. **Professional Enhancement Requirement:** Students must participate in 8 hours per degree program of Public Health-related lectures, seminars, and symposia, related to your field of study. Professional Enhancement activities supplement the academic curriculum and help prepare students to participate actively in the professional community. Opportunities for professional enhancement are regularly publicized via the Milken Institute SPH Listserv and through your department or advisor. 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> (which includes a prior approval signature from the student's advisor, a description of the program agenda, and proof of attendance. Remember to submit your documentation before you apply to graduate!

Milken Institute School of Public Health MPH in Global Environmental Health (45 credits)

Sample Schedule for 2-Year completion (Fall start / May completion⁺). All course times are tentative.

Semester	Credit	Course #	Course Name	Time (subject to change)
Fall 1 st year 12 credits	3	PUBH 6002	Biostatistical Applications for Public Health	Mon 3:10 – 6:00 pm or Wed 6:10 – 9:00 pm
	3	PUBH 6003	Principles and Practice of Epidemiology	Tues 6:10 – 9:00 pm or Weds 3:10 – 6:00 pm
	3	PUBH 6011	Environmental & Biological Fundamentals of Public Health	Tues 3:10 – 6:00 pm
	1	PUBH 6021	Essentials of Public Health Leadership & Practice 1	Online, times vary
	2	PUBH 6400	Global Health Frameworks	Thurs 4:10 – 6:00 pm
Spring 1 st year 10 credits	2	PUBH 6007	Social & Behavioral Approaches to Public Health	Mon 6:10 – 8:00 pm
	2	PUBH 6009	Fundamentals of Program Evaluation	Online, times vary
	2	PUBH 6012	Fundamentals of Health Policy	Tues or Wed, 4:10 – 5:25 pm, (hybrid class)
	1	PUBH 6022	Essentials of Public Health Leadership & Practice 2	Online, times vary
	2	PUBH 6128	Global Environmental and Occupational Health	Online, times vary
	3	PUBH 6131	Quantitative Methods in EOH + Plan Practicum +	Thurs 3:10 – 6:00 pm / Lab Thurs 6:30 – 8:00 pm
Summer 1st year 0 credits	0	PUBH 6000	MPH Applied Practice Experience	
Fall 2 nd year 10 credits*	3	PUBH 6121	Environmental & Occupational Epidemiology	Wed 5:10 – 8:00 pm
	3	PUBH 6126	Assessment & Control of Environmental Hazards	Mon 6:10 – 9:00 pm
	1	PUBH 6137	EOH Culminating Experience Course Part 1	Wed 3:10 – 5:00 pm
	3	Electives*	Electives	
Spring 2 nd year 9 credits	2	PUBH 6411	Global Health Qualitative Research Methods	Mon 4:10 – 6:00 pm
	2	PUBH 6435	Global Health Program Development & Implementation	Tues 6:10 – 8:00 pm
	1	PUBH 6138	EOH Culminating Experience Course Part 2	Wed 3:10 – 5:00 pm
	0	PUBH 6023	Interprofessional Education Experience	TBD**
	6	Electives*	Electives	

*Your program includes 9 credits of graduate-level electives (PUBH 6xxx). With guidance from your advisor, complete these 9 credits in any combination during your second year.

+ Make sure that you complete Practicum training and start planning your Practicum the semester before you wish to conduct it.

**Can be completed any time after 1st year of program but before graduation

Sample Schedule for 3-Year completion (Fall start / May completion+). All course times are tentative.

Semester	Credit	Course#	Course Name	Time (subject to change)
Fall 1 st year 7 credits	3	PUBH 6002	Biostatistical Applications for Public Health	Mon 3:10 – 6:00 pm or Wed 6:10 – 9:00 pm
	3	PUBH 6011	Environmental & Biological Fundamentals of Public Health	Tues 3:10 – 6:00 pm
	1	PUBH 6021	Essentials of Public Health Leadership & Practice I	Online, times vary
Spring 1 st year 7 credits	3	PUBH 6003	Principles and Practice of Epidemiology	Thurs 3:10-6:00 pm
	2	PUBH 6007	Social & Behavioral Approaches to Public Health	Mon 6:10-8:00 pm
	2	PUBH 6128	Global Environmental and Occupational Health	Online, times vary
Summer 1 st year 4 credits	2	PUBH 6009	Fundamentals of Program Evaluation	TBD
	2	PUBH 6012	Fundamentals of Health Policy	TBD
Fall 2 nd year 5 credits	3	PUBH 6126	Assessment and Control of Environmental Hazards	Mon 6:10 – 9:00 pm
	2	PUBH 6400	Global Health Frameworks	Thurs 4:10 – 6:00 pm
Spring 2 nd year 6 credits	1	PUBH 6022	Essentials of Public Health Leadership & Practice 2	Online
	3	PUBH 6131	Quantitative Methods in EOH	Thurs 3:10 – 6:00 pm, Lab
	2	Electives*	Electives + Plan Practicum +	Thurs 6:30-8:30pm
Summer 2 nd year 3 credits	3	Electives*	Electives	
Fall 3 rd year 8 credits	0	PUBH 6023	Interprofessional Education Experience **	
	3	PUBH 6121	Environmental and Occupational Epidemiology	Wed 5:10 – 8:00 pm
	1	PUBH 6137	EOH Culminating Experience Course Part 1	Wed 3:10 – 5:00 pm
	4	Electives*	Electives	
Spring 3 rd year 5 credits	1	PUBH 6138	EOH Culminating Experience Course Part 2	Wed 3:10 – 5:00 pm
	2	PUBH 6411	Global Health Qualitative Research Methods	Mon 4:10 – 6:00 pm
	2	PUBH 6435	Global Health Program Development & Implementation	Tues 6:10 – 8:00 pm

* Your program includes 9 credits of graduate-level electives (PUBH 6xxx). With guidance from your advisor, complete these 9 credits in any combination during your second year.

+ Make sure that you complete Practicum training and start planning your Practicum the semester before you wish to conduct it.

**Can be completed any time after 1st year of program but before graduation