

<p>Milken Institute School of Public Health</p> <hr/> <p>THE GEORGE WASHINGTON UNIVERSITY</p>	<p>Milken Institute School of Public Health</p> <p>MPH@GW</p> <p>Master of Public Health</p> <p>Health Informatics & Analytics Concentration</p> <p>2026-2027</p>
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Concentration Mission Statement

The Health Informatics & Analytics (HIA) concentration will prepare students with the values, knowledge, and skills to obtain, analyze, manage and use health information to achieve optimal health care delivery and administration through sound clinical and business, operational, and strategic decisions.

Concentration Description

This distance education MPH program combines core MPH skills with an emphasis on interdisciplinary teaching and core competencies/skills by using cases/other materials from both the U.S. and abroad

with a Health Informatics concentration that contains courses and skills to set students up for what lies ahead in the use of data and information to improve health. The pedagogy allows students to tailor their education to local, national, or global levels emphasizing interdisciplinary public health competencies including: biostatistics and epidemiology; cultural competency; health communication; leadership; professionalism; planning, implementation and evaluation methods; public health biology; and systems thinking.

Course Requirements

All Milken Institute School of Public Health (GWSPH) MPH students who select the HIA concentration in the MPH@GW program enroll in core courses (17 credits), MPH@GW program-specific courses (10 credits), HIA concentration courses (11credits), and electives (5 credits). The total 45 credit degree program also includes a Culminating Experience (2 credits).

The MPH@GW program is taught over four 10-week quarters throughout the calendar year. Each course is designed to be delivered to meet the required workload per credit hour within the 10-week quarter.

Competencies

Upon completion of the program, students should possess the following competencies:

- Develop a programmatic implementation and evaluation plan for a health promotion intervention (PUBH 6500)
- Assess the functions, capacities, management and governance of governmental, international and non-state organizations that comprise health systems (PUBH 6442)
- Apply appropriate theories toward the development, implementation, and evaluation of public health interventions to address health risks at the individual, interpersonal, community, and/or population levels and mitigate population health impact (PUBH 6500)
- Apply commonly employed data management techniques using appropriate software tools (PUBH 6052)
- Describe how health systems performance is affected by various approaches to health care organization, health law, health workforce development and health care financing (PUBH 6442)
- Develop communication campaigns and strategies to disseminate health promotion information through media channels (PUBH 6503)
- Investigate a public health issue through evidence-based methods, including a review of scientific literature (PUBH 6500)
- Use appropriate health information technology (IT), informatics and data terms (PUBH 6704)
- Demonstrate strategies that apply data and health IT structures, policies and processes (PUBH 6705)
- Consult with stakeholders to identify health IT solutions and present results (PUBH 6703)
- Apply concepts of health informatics to areas of population health (PUBH 6706)
- Solve healthcare issues through the optimization of health IT, related data, and business processes (PUBH 6705)
- Assess the implications of health information technology and related data and processes (PUBH 6704)

Course Sequence

Students will start the program by enrolling in MPH core courses. Full-time students should plan to take PUBH 6021 and PUBH 6003 in their first quarter and complete all core courses within the first three quarters. Part-time students should consult with their academic advisor to select an appropriate sequence of courses.

Following completion of the MPH core courses, students should complete the MPH@GW program specific courses, and finish with their elective courses. Courses offered in the online format can be found on the GW Schedule of Classes under Online and are designated with a “U” in the section number.

Following completion of the core MPH courses, students who elect the HIA concentration will take four MPH@GW required courses (PUBH 6442, 6500, 6503 and 6552), and four required HIA concentration courses (PUBH 6703, 6704, 6705, and 6706). The HIA concentration also provides room for five elective credits that can be used for any MPH@GW elective course. Suggested HIA courses are listed. Electives may be taken in the residential program provided pre-requisites have been met.

Course Descriptions and Registration information can be found in the University Bulletin [here](#).

Program Elective Courses

The following are examples of electives that are currently offered online. New courses are added frequently. Up to 15 credits may be taken on campus in residential courses provided pre-requisites have been met. The list of MPH@GW electives will be updated as new courses become available.

- PUBH 6054 Community Engagement & Advocacy (2 credits)
- PUBH 6058 Researching Violence Against Women and Girls (2 credits)
- PUBH 6128 Global Environmental & Occupational Health (2 credits)
- PUBH 6130 Sustainable Energy & the Environment (2 Credits)
- PUBH 6132 Water, Sanitation, & Hygiene (WASH) in Low-Income Countries (2 credits)
- PUBH 6133 Social Dimensions in Climate Change & Change (3 credits)
- PUBH 6135 Researching Climate Change & Human Health (3 credits)
- PUBH 6136 Introduction to Environmental & Occupational Epidemiology (3 credits)
- PUBH 6140 Global Climate Change & Air Pollution (2 credits)
- PUBH 6146 Microbiomes & Microbial Ecology in Public Health (2 credits)
- PUBH 6335 Public Health & Law (3 credits)
- PUBH 6368 Law, Medicine, & Ethics (3 credits)
- PUBH 6390 Prescription Drugs, Policy, & Public Health (3 credits)
- PUBH 6400 Global Health Frameworks (2 credits)
- PUBH 6450 Global Health Diplomacy (2 credits)
- PUBH 6451 Sexual & Reproductive Health Monitoring (2 credits)
- PUBH 6452 Social & Behavior Change Communication in Middle-to Low-Income Countries (2 credits)
- PUBH 6455 Global Vaccinology (3 credits)

- PUBH 6480 Public Health in Humanitarian Settings (2 credits)
- PUBH 6486 Global Health Programs & Approaches to the Control of Infectious Diseases (2 credits)
- PUBH 6489 Evaluation of Nutrition Program (1 credit)
- PUBH 6508 Cost Effectiveness Analysis of Health Promotion Interventions (3 credits)
- PUBH 6514 Preventing Health Disparities (2 credits)
- PUBH 6530 Qualitative Methods in Health Promotion (2 credits)
- PUBH 6550 Maternal & Child Health I (3 credits)
- PUBH 6552 Women's Health (2 credits)
- PUBH 6563 Global Child Health (2 credits)
- PUBH 6571 Social Marketing (3 credits)
- PUBH 6572 Marketing & Research for Public Health (3 credits)
- PUBH 6612 Food Systems in Public Health (2 credits)
- PUBH 6619 Fundamentals of Nutrition Science (3 credits)
- PUBH 6703 Health Care Delivery & Health IT (2 credits)
- PUBH 6704 Health IT, Informatics, & Decision Making (3 credits)
- PUBH 6705 Health Law & Health IT (3 credits)
- PUBH 6706 Population & Community Health Analytics (3 credits)
- PUBH 6717 Predictive Analytics (3 credits)
- PUBH 6894 Research Analytics (3 credits)

Graduation Requirements

All students accepted to this MPH program must follow the policies and regulations outlined in the [GW Bulletin](#) and the [GWSPH Student Handbook](#). This includes, but is not limited to:

- Minimum Grade Point Average (GPA)
- Minimum Course Grades
- Continuous Enrollment
- Maximum Time to Degree
- Required Minimum Degree Credits
- Transfer Credit Policy
- CITI Training
- Integrity Quiz and Plagiarism
- Professional Enhancement (PE) Hours
- Interprofessional Education (IPE) Experience
- Applied Practice Experience (Practicum)
- Culminating Experience (e.g., CE)

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Required Core Courses (17 credits)		Credits	Quarter
PUBH 6000	Applied Practice Experience (APEX)	0	All
PUBH 6002	Biostatistical Applications for Public Health	3	All
PUBH 6003	Principles & Practice of Epidemiology	3	All
PUBH 6007	Social & Behavioral Approaches to Public Health	2	All
PUBH 6009	Fundamentals of Program Evaluation	2	
PUBH 6011	Environmental & Biological Foundations of Public Health	3	All
PUBH 6012	Fundamentals of Health Policy	2	All
PUBH 6021	Essentials of Public Health Leadership & Practice 1	1	All
PUBH 6022	Essentials of Public Health Leadership & Practice 2	1	All
PUBH 6023	Interprofessional Education Experience (IPE)	0	All
Required MPH@GW Program-Specific Courses (10 credits)		Credits	Quarter
PUBH 6052	Practical Data Management & Analysis for Public Health	2	All
PUBH 6442	Comparative Global Health Systems	2	All
PUBH 6500	Planning & Implementation of Health Promotion Programs	3	All
PUBH 6503	Introduction to Public Health Communications & Marketing	3	All
Required Health Informatics & Analytics Concentration Courses (11 credits)		Credits	Quarter
PUBH 6703	Health Care Delivery and Health IT	2	F, Sp II
PUBH 6704	Health IT, Informatics, & Decision Making	3	Sp I, Su
PUBH 6705	Health Law & Health IT	3	Sp I, Su
PUBH 6706	Population Health Analytics	3	F, Sp II
Electives (5 credits)		Credits	Quarter
Any PUBH 6XXX	<p>MPH@GW electives or on-campus^ electives where applicable. Examples include:</p> <ul style="list-style-type: none"> • PUBH 6730 Health System & Health IT Applied Analysis Immersion (strongly advised) • PUBH 6717 Predictive Analytics: Applying the Concepts to Predictive Modeling • PUBH 6894 Research Analytics: Applying the Concepts to Analytics 	5	Varies
MPH@GW Culminating Experience Courses (2 credits)		Credits	Quarter

MPH@GW

PUBH 6060	MPH@GW Culminating Experience 1	1	All
PUBH 6061	MPH@GW Culminating Experience 2	1	All
Course Distribution		Credits	
Public Health Core Courses		17	
Required MPH@GW Program-Specific Courses		10	
Required Health Informatics & Analytics Concentration Courses		11	
Electives		5	
Culminating Experience		2	
Total Degree Credits		45	

^ MPH@GW students may take up to 15 credits on-campus.