

# Milken Institute School of Public Health

THE GEORGE WASHINGTON UNIVERSITY

## Department of Global Health PhD in Global Public Health Sciences 2021-2022

Note: All curriculum revisions will be updated immediately on the website  
<http://www.publichealth.gwu.edu>

### Program Director

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### Mission

The mission of the multidisciplinary Global Public Health Sciences PhD program is to educate individuals in global health focused on developing new knowledge in the methods or applications of global health sciences from the molecular to the community setting. Our scholars will be rigorously trained in science, including the use of sound methodological approaches and innovative thinking that can be translated into real-world applications of global health, with specific focus in the areas of population health, health systems, and infectious and chronic diseases.

### Program Requirements

All Milken Institute School of Public Health (GWSPH) DGH PhD students are required to have completed a master's degree in a relevant field for entry into the PhD program. Comprising a total of 48 credits, students are required to complete specific Schoolwide Foundational Courses (8 credits), DGH Core Courses (13credits), Tailoring Courses (specific electives- minimum 13 credits) and Dissertation Preparation and Research (11-14 credits).

### Competencies

Students in the Department of Global Health PhD program will be able to:

1. Identify a wide range of global health concepts, theories, and methods;
2. Interpret general and specialized concepts and methodologies for scientific research in global health;
3. Apply general, specialized, and advanced concepts and methodologies for scientific research in global health;
4. Utilize sound methodological approaches and innovative thinking that will lead to new scientific knowledge that can be translated into real-world health applications in global health;
5. Understand how to identify and appropriately work with communities from which research participants are drawn and/or those who are most impacted by the conduct and results of the research;
6. Conduct independent research studies, analyze data and communicate results;
7. Apply guidelines for ethical research practice and responsible conduct of research;
8. Understand the roles of equity and social justice in global health research;
9. Disseminate research findings to scientific and lay audiences;
10. Develop the capacity to work multidisciplinary and within interprofessional settings, e.g., in collaboration with basic, clinical, and social and behavioral scientists in academia and research settings, and others in government, non-profit community settings, think tanks, and the private sector.

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## PhD in Global Public Health Sciences

2021-2022

### Course Distribution Summary

- Total Credits = Minimum 48
- Required Schoolwide Foundation Courses and Research Methods = 8 credits
- Required DGH Core Courses = 13credits
- Tailoring Electives = 13 credits minimum
- Dissertation preparation and dissertation 11-14 credits

**UNIV 0250- GRADUATE TEACHING ASSISTANT CERTIFICATION. SUCCESSFUL COMPLETION OF THIS CERTIFICATION IS REQUIRED PRIOR TO TAKING ON ROLE AS TEACHING ASSISTANT. THIS ONLINE CERTIFICATION IS PAID FOR BY GW. THE 1-CREDIT RECEIVED FOR THIS CERTIFICATION IS NOT COUNTED TOWARD THE 48-CREDIT PhD PROGRAM.**

### Required Schoolwide PhD Foundational and Research Methods Courses 8 Credits

|            |   | Credits | Semester(s) offered |  |
|------------|---|---------|---------------------|--|
| PUBH 6080^ | Pathways to Public Health ( <i>non-MPH grads</i> )            | 0       | Fall (Year 1)       |  |
| PUBH 6421  | Responsible Conduct of Research                               | 1       | Summer              |  |
| PUBH 8099  | PhD Seminar: Cross Cutting Concepts in Public Health          | 1       | Fall (Year 1)       |  |
| PUBH 6862  | Applied Linear Regression Analysis for Public Health Research | 3       | Fall                |  |
| PUBH 8416  | Study Design and Evaluation Methods                           | 3       | Spring              |  |

### Required GH Sciences Core Courses 13 Credits

|   |   | Credits | Semester(s) offered |  |
|---|---|---------|---------------------|--|
| PUBH 6850<br>OR<br>PUBH 6851<br>OR<br>PUBH 6852 | Introduction to SAS for Public Health Research<br>OR<br>Introduction to R for Public Health Research<br>OR<br>Introduction to Python for Public Health Research | 1       | Fall                |  |
| PUBH 6865                                       | Applied Categorical Data Analysis   | 3       | Spring              |  |
| PUBH 8406                                       | Advanced Topics in Global Health: Doctoral Seminar Part 1   | 2       | Spring              |  |
| PUBH 8407                                       | Advanced Topics in Global Health: Doctoral Seminar Part 2   | 2       | Fall                |  |
| PUBH 8470                                       | Global Health Demographic Methods   | 3       | Fall                |  |
| PUBH 8475                                       | Research Ethics and Integrity in Domestic and International Research  | 2       | Spring              |  |

### Example Specialization Areas 13 Credits Minimum (Plan must be approved in advance by advisor)

|   |   | Credits | Semester(s) offered |  |
|---|---|---------|---------------------|--|
| <b>Population Health Sciences Focus</b> |   |         |                     |  |
| PUBH 6252                               | Advanced Epidemiologic methods  | 3       | Fall/Spring         |  |
| PUBH 8472                               | Survey Research Methods   | 3       | Spring              |  |
| PUBH 6563 +<br>PUBH 8473                | Global Child Health + Advanced Topics: Global Child Health                  | 2 +1    | Fall/Spring         |  |
| PUBH 8419                               | Measurement in Public Health and Health Services Research                   | 3       | Spring              |  |
| PUBH 6499                               | Injury and Global Public Health   | 1       | Summer              |  |
| PUBH 6481                               | Global Mental Health  | 2       | Spring              |  |
| PUBH 6486                               | Global Health Programs and Approaches to the Control of Infectious Diseases | 2       | Fall/Spring         |  |
| PUBH 6492                               | Global Health Programs and Approaches to the Control of Chronic Diseases    | 2       | Fall                |  |
| <b>Health Systems Focus</b>             |   |         |                     |  |

|  |   |                |                    |  |
|--|---|----------------|--------------------|--|
| PUBH 8419                                      | Measurement in Public Health and Health Services Research                             | 3              | Spring             |  |
| PUBH 6474 +<br>PUBH 8474                       | Health Systems Research in Low- and middle-income Countries + Adv Seminar- HSR in LMC | 2+1            | Spring             |  |
| PUBH 8417                                      | Qualitative Research Methods & Analysis   | 3              | Spring             |  |
| SOC 6240                                       | Field Research in Organizational Settings   | 3              |                    |  |
| PSC 8132                                       | Network Analysis  | 3              |                    |  |
| EDUC 8131                                      | Case Study Research Methods   | 3              | Spring             |  |
| EDUC 8140                                      | Ethnographic Research Methods   | 3              | Spring             |  |
| EDUC 8142                                      | Phenomenological Research Methods   | 3              | Spring             |  |
| EMSE 6740                                      | Systems Thinking and Policy Modeling I  | 3              | Fall               |  |
| ORSC 6243                                      | Seminar: Leadership in Complex Organizations  | 3              | Spring             |  |
| ORSC 6245                                      | Seminar: Organizational Behavior  | 3              | Fall               |  |
| PPPA 8190                                      | Philosophical Foundations of Policy and Administrative Research                       | 3              | Fall               |  |
| PPPA 8023                                      | Mixed Methods in Research Design  | 3              | Summer             |  |
| PUBH 8404                                      | Health Systems & Health Policy Research   | 3              | Spring             |  |
| <b><i>Global Infectious Disease Focus</i></b>  |   |                |                    |  |
| PUBH 6484                                      | Prevention and Control of Vector-Borne Diseases                                       | 2              | Spring             |  |
| PUBH 6486                                      | Global Health Programs and Approaches to the Control of Infectious Diseases           | 2              | Fall               |  |
| PUBH 8486                                      | Global Infectious Diseases – Advanced Doctoral Seminar                                | 2              | Fall               |  |
| MICR 8210                                      | Infection and Immunity  | 3              | Spring             |  |
| PUBH 6455                                      | Global Vaccinology  | 3              | Summer             |  |
| PUBH 6275                                      | Essential Public Health Laboratory Skills   | 2              | Summer / Fall      |  |
| PUBH 6245                                      | Infectious Disease Epidemiology   | 2              | Spring             |  |
| PUBH 6278                                      | Public Health Virology  | 3              | Spring             |  |
| PUBH 6277                                      | Public Health Genomics  | 3              | Spring             |  |
| <b><i>Additional Relevant Offerings</i></b>    |   |                |                    |  |
| PUBH 6445                                      | Quantitative Methods for Impact Evaluation  | 3              | Fall               |  |
| PUBH 6495                                      | Field Trials and Applications   | 2              | Fall               |  |
| PUBH 6887                                      | Applied Longitudinal Data Analysis for Public Health                                  | 2              | Spring             |  |
| PUBH 6886                                      | Statistical and Machine Learning for Public Health and Biomedical Research            | 3              | Fall               |  |
| PUBH 8901                                      | Independent Study   | 1-3            | Summer/Fall/Spring |  |
|  | <b>May Add Additional Tailoring Courses Approved in Advance by Advisor</b>            |                |                    |  |
| <b>Dissertation Research<br/>11-14 Credits</b> |   |                |                    |  |
|  |   | <b>Credits</b> |                    |  |
| PUBH 8435                                      | PhD Dissertation Proposal Development   | 2              | Fall/Spring        |  |
| PUBH 8999                                      | Dissertation Research-Global Health Sciences  | 9-12           | Summer/Fall/Spring |  |
| <b>Total</b>                                   |   | <b>48</b>      |                    |  |

**^Pathways to Public Health course (PUBH 6080).** As an accredited School of Public Health, curriculum in all graduate academic programs must provide a foundation in public health. If a student already holds a Public Health degree from an accredited program or school of Public Health, this requirement will be waived. Otherwise, this zero-credit, free, online course should be completed within one year of matriculation.

## Summary of GWSPH Graduation Requirements for a PhD in Global Public Health Sciences

1. **Credits:** Successful completion of 48 credits as delineated in the PhD program guide.
2. **Curriculum:** Successful completion of all course requirements for the PhD program in Global Public Health Sciences.
3. **Teaching Assistantship:** All PhD students in the Department of Global Health are required to serve as Teaching Assistants a minimum of two (2) times. Successful completion of the University Graduate Training Assistantship Certification (UNIV 0250) is required prior to serving as a Teaching Assistant.
4. **Qualifying Examination:** After successfully completing all course requirements, students must pass the comprehensive exam and dissertation proposal in order to be officially admitted to the candidacy phase.
5. **Dissertation:** Completion of 9-12 credits of dissertation research. Once the proposal has been successfully defended and the dissertation research credit requirement has been met, the oral defense may be scheduled.
6. **Grade point average:** A minimum overall grade point average of *B* (3.0).
7. **Time limit:** The degree must be completed within seven years of matriculation.
8. **CITI training requirement:** Successful completion of training regarding human subjects protections and compliance with the Health Insurance Portability and Accountability Act of 1996 (HIPAA). To fulfill this requirement, students must complete the Collaborative IRB Training Initiative (CITI) Course in the Protection of Human Research Subjects.
9. **Integrity Quiz and Plagiarism requirement:** All students are required to review the George Washington University Code of Academic Integrity, take the quiz within their first semester of study, and submit pertinent documentation to the GWSPH Office of Student Records. See <https://studentconduct.gwu.edu/code-academic-integrity>.
10. **Professional Enhancement Activity requirement:** To supplement the academic curriculum of all GWSPH degree programs, students must attend eight (8) hours of advisor pre-approved public health-related lectures, seminars, symposia, or other professional meeting related to the student's field of study or interest. Students must submit documentation of Professional Enhancement activities to the GWSPH Office of Student Records. For the required form, see <https://publichealth.gwu.edu/sites/default/files/gwsph-professional-enhancement-policy-form.pdf>.