

DOCTOR OF PHILOSOPHY IN THE FIELD OF ENVIRONMENTAL HEALTH

Program Directors K. Applebaum, L. Price

The mission of the doctor of philosophy (PhD) in the field of environmental health program is to educate individuals focused on developing new knowledge in the methods or applications of environmental health sciences that translates to environmental public health policy and practice. Program scholars will advance knowledge in analysis and laboratory sciences.

Graduates can expect to be able to:

- Demonstrate skills across a wide range of epidemiologic and biostatistical theories and methods.
- Use knowledge in environmental public health risk sciences.
- Understand general and specialized concepts and methodologies for scientific research in environmental health.
- Understand and identify data that scientifically addresses environmental health disparity issues related to environmental justice, occupational exposures and global inequities in exposures and susceptibilities.
- Demonstrate ability to work in interprofessional settings, e.g., in collaboration with quantitative, environmental, physical, and social scientists.
- Understand and abide by guidelines for ethical research practice and responsible conduct of research.
- Understand how to identify and appropriately work with communities from which research subjects are drawn and/or those who are most impacted by the conduct and results of the research.
- Conduct independent research, analyze data, and communicate results.
- Disseminate research findings to scientific and lay audiences.

Visit the program website (<https://publichealth.gwu.edu/programs/environmental-health-phd/>) for additional program information.

REQUIREMENTS

The following requirements must be fulfilled: 72 credits, including 43 credits in required courses, 15 credits in elective courses, and 14 credits in dissertation courses.

Code	Title	Credits
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Required

Foundational (25 credits)

PUBH 6002	Biostatistical Applications for Public Health
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PUBH 6003	Principles and Practices of Epidemiology
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PUBH 6011	Environmental and Biological Foundations of Public Health
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PUBH 6131	Quantitative Methods in Environmental and Occupational Health
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or PUBH 6853	Use of Statistical Packages for Data Management and Data Analysis
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PUBH 6247	Design of Health Studies
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PUBH 8110	Research Rotations
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PUBH 6080	Pathways to Public Health
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PUBH 8415	Instructional Leadership
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Environmental health core (21 credits)

PUBH 6121	Environmental and Occupational Epidemiology
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PUBH 6123	Toxicology: Applications for Public Health Policy
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PUBH 6126	Assessment and Control of Environmental Hazards
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PUBH 6144 & PUBH 8144	Environmental Health Data Development and Modeling and Advanced Environmental Health Data Development and Modeling
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PUBH 8116	Communicating Research Results
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PUBH 8411	Advanced Topics: Principles of Human Health Risk Science
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PUBH 8412	Advanced Topics: Environmental and Occupational Health Research and Practice
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Electives

A minimum of 12 credits in elective courses.
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Dissertation

14 credits in dissertation research and preparation.
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PUBH 8422	Advanced Health Care and Public Health Research Design
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or PUBH 8435 Dissertation Proposal Development for Social
and Behavioral Sciences

PUBH 8999 Dissertation Research