



MPH Environmental Health Functional Certificate Roadmap

Boston University School of Public Health

Matriculation Year: Fall 2024 and Spring 2025*

[Environmental Health Certificate Bulletin](#)

48 units to an MPH

EH Certificate Requirements

(16 units)

Integrated Core, Foundations, & Career PREP

(16 units)

Develop a strong foundation in public health through the core courses:

- PH700 Foundations of Public Health (0 units)**
- PH717 Quantitative Methods for Public Health (4 units)
- PH718 Leadership and Management in Public Health (4 units)
- PH719 Health Systems, Law, and Policy (4 units)
- PH720 Individual, Community, and Population Health (4 units)
- PH746 Career PREP (0 units)***

Additional 16 Units

(16 units)

Choose one of the following options to fulfill your additional 16 required units:

1. Complete a second functional certificate (16 units)
2. Complete a context certificate (12 units) plus 1 elective (4 units)
3. Complete 16 elective units

MPH Practicum

(240 hours; 0 units)

Gain experience as a public health professional through a Practicum.

- You can begin your Practicum after you have completed at least 16 SPH units
- More information can be found here: <https://www.bu.edu/sph/careers/for-students/practmenu/>
- Questions? Contact sphpract@bu.edu

Potential 4 unit overlap between certificates

- SPH EH 705 Toxicology for Public Health (2 units) **or** SPH EH 768: Toxicology for Environmental Health and Epidemiology (4 units)^{††}
- SPH EH 707 Physiology for Public Health (2 units)
- SPH EH 730 Methods in Environmental Health Sciences (4 units)
- One from the following:
 - SPH EH 757 Environmental Epidemiology (4 units)
 - SPH EH 804 Field Methods in Exposure Science (4 units)
 - SPH EH 866 Risk Assessment Methods (4 units)
- Choose an additional 2–4 units from the courses below[†]:
 - SPH EH 713 Essentials of Genetic Technologies and the Future of Public Health (4 units)
 - SPH EH 720 Climate Change and Public Health (4 units)
 - SPH EH 722 Climate Change and Health Equity (4 units)
 - SPH EH 727 Incorporating Health to Design Healthy and Sustainable Climate Solutions (4 units)
 - SPH EH 735 The Environmental Determinants of Infectious Disease (2 units)
 - SPH EH 745 Wastewater and Health/Sustainable Sanitation (2 units)
 - SPH EH 750 Water Quality and Public Health (2 units)
 - SPH EH 757 Environmental Epidemiology (4 units)
 - SPH EH 804 Field Methods in Exposure Science (4 units)
 - SPH EH 805 Environmental Health Science, Policy and Law (4 units)
 - SPH EH 811 Intro GIS for Public Health (4 units)^{†††}
 - SPH EH 851 Advanced GIS for Public Health and Climate Research (4 units)
 - SPH EH 866 Risk Assessment Methods (4 units)
 - SPH EH 872 Environmental Data and Exposure Modeling (4 units)
 - SPH PH 737 Geographic Information Systems (GIS) for Public Health Decision Making (2 units)^{†††}
 - SPH PH 802 Environmental Justice: Social Movement, Science and Policy (2 units)
 - SPH PH 803 Community-Based Participatory Research: Theory and Methods (2 units)
 - SPH PH 825 Analysis of Emerging Infections Using the One Health Approach (4 units)

[†] A course cannot satisfy multiple requirement groups.
^{††} Students cannot receive units for both SPH EH 705 and SPH EH 768.
^{†††} Students cannot receive units for both SPH EH 811 and SPH PH 737.

Integrative Learning Experience

(0 units)

Integrate, synthesize, and apply the knowledge and skills you have learned throughout the MPH program. ILE is completed during final semester.

- The ILE involves writing a policy memo for a defined stakeholder group. The student will work on a case study either based on one in a project-based class (e.g., Exposure Assessment, Epidemiology, Risk Assessment, GIS) or an idea developed independently. In either case, the topic must be approved by the certificate director.

Certificate Director: Junenette L. Peters (petersj@bu.edu)

Academic Program Administrator: Christine Copacino

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*Student **must** follow course requirements relative to the semester they matriculated. Official requirements are listed in the Academic Bulletin. Degree Progress via MyBU Student Portal is a useful tool to track your progress.

**PH700 Foundations of Public Health (0 units) is a self-directed, online course completed prior to matriculation.

***PH746 Career PREP is a career development course (on-campus or online) students must complete prior to graduation.

Dual degree students should consult the academic bulletin for official degree requirements as they differ from the roadmap.

Environmental Health Course Rotation Information

- This page was developed to help students understand when courses are typically offered during an academic year. ******Please note: we cannot guarantee that a specific course will run during a specific semester.****** Also, this page will not be updated if courses are canceled, so be sure to check the MyBU Student Portal for course availability information. Please see the [Course Bulletin](#) for information about course prerequisites.
- The following courses are *typically* offered in the *Fall*:
 - EH 710 Physiological Mechanisms of Health and Disease (4 units) (can't be taken together with EH 707 for units)****
 - EH 720 Climate Change and Public Health (4 units)
 - EH 730 Methods in Environmental Health Sciences (4 units)
 - EH 745 Wastewater and Health/Sustainable Sanitation (2 units)
 - EH 750 Water Quality and Public Health (2 units)
 - EH 804 Field Methods in Exposure Science (4 units)
 - EH 811 Intro GIS for Public Health (4 units) (can't be taken together with PH 737 for units)
 - EH 866 Risk Assessment Methods (4 units)
 - PH 737 Geographic Information Systems (GIS) for Public Health Decision Making (2 units) (can't be taken together with EH 811 for units)
 - PH 802 Environmental Justice: Social Movement, Science and Policy (2 units)
 - PH 803 Community-Based Participatory Research: Theory and Methods (2 units)
 - PH 825 Analysis of Emerging Infections Using the One Health Approach (4 units)
- The following courses are *typically* offered in the *Spring*:
 - EH 705 Toxicology for Public Health (2 units) (can't be taken together with EH 768 for units)
 - EH 707 Physiology for Public Health (2 units) (can't be taken together with EH 710 for units)
 - EH 713 Essentials of Genetic Technologies and the Future of Public Health (4 units)
 - EH 722 Climate Change and Health Equity (4 units)
 - EH 727 Incorporating Health to Design Healthy and Sustainable Climate Solutions (4 units)
 - EH 730 Methods in Environmental Health Sciences (4 units)
 - EH 735 The Environmental Determinants of Infectious Disease (2 units)
 - EH 757 Environmental Epidemiology (4 units)
 - EH 768 Toxicology for Environmental Health and Epidemiology (4 units) (can't be taken together with EH 705 for units)
 - EH 805 Environmental Health Science, Policy and Law (please note: only offered in alternating years; EVEN years)
 - EH 851 Advanced GIS for Public Health and Climate Research (4 units)
 - EH 872 Environmental Data and Exposure Modeling (4 units) (please note: only offered in alternating years; ODD years)
 - PH 737 Geographic Information Systems (GIS) for Public Health Decision Making (2 units) (can't be taken together with EH 811 for units)

****Course eligible for EH Certificate Units via a Course Substitution Form and Certificate Director Approval