



# MPH Environmental Health Functional Certificate Roadmap

Boston University School of Public Health

Matriculation Year: Fall 2023 and Spring 2024\*

[Environmental Health Certificate Bulletin](#)

48 credits to an MPH

## Integrated Core, Foundations, & Career PREP (16 credits)

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

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

## Additional 16 Credits (16 credits)

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

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

## MPH Practicum (240 hours; 0 credits)

Gain experience as a public health professional through a Practicum.

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

## EH Certificate Requirements (16 credits)

- SPH EH 705 Toxicology for Public Health (2 cr)
- SPH EH 707 Physiology for Public Health (2 cr)
- SPH EH 730 Methods in Environmental Health Sciences (4 cr)
- At least one from the following:
  - SPH EH 757 Environmental Epidemiology (4 cr)
  - SPH EH 804 Field Methods in Exposure Science (4 cr)
  - SPH EH 866 Risk Assessment Methods (4 cr)
- Choose 4 credits from the courses below or from the list above:
  - SPH EH 713 Essentials of Genetic Technologies and the Future of Public Health (4 cr)
  - SPH EH 720 Climate Change and Public Health (4 cr)
  - SPH EH 735 Environmental Determinants of Infectious Disease (2 cr)
  - SPH EH 745 Wastewater and Health/Sustainable Sanitation (2 cr)
  - SPH EH 750 Water Quality and Public Health (2 cr)
  - SPH EH 805 Environmental Health Science, Policy, and Law (4 cr)
  - SPH EH 811 Intro GIS for Public Health (4 cr)
  - SPH EH 872 Environmental Data and Exposure Modeling (4 cr)
  - SPH PH 737 Geographic Information Systems (GIS) for Public Health Decision Making (2 cr)
  - SPH PH 825 Analysis of Emerging Infections Using the One Health Approach (4 cr)

Potential 4 credit overlap  
between certificates

## Integrative Learning Experience (0 credits)

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.

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

\*\*PH700 Foundations of Public Health (0 cr.) 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.

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# 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 cancelled, so be sure to check the Student Link for course availability information. Please see the [Course Bulletin](#) for information about course prerequisites.
- The following courses are *typically* offered in the *Fall*:
  - EH710 Physiological Mechanisms of Health and Disease (4 cr) (can't be taken together with EH707 for credit)\*\*\*\*
  - EH720 Climate Change and Public Health (4 cr)
  - EH730 Methods in Environmental Health Sciences (4 cr)
  - EH745 Wastewater and Health/Sustainable Sanitation (2 cr)
  - EH750 Water Quality and Public Health (2 cr)
  - EH804 Field Methods in Exposure Science (4 cr)
  - EH811 Intro GIS for Public Health (4 cr)
  - EH866 Risk Assessment Methods (4 cr)
  - PH737 Geographic Information Systems (GIS) for Public Health Decision Making (2 cr)
  - PH801 Community Engaged Research: Theory, Methods, and Applications (4 cr)\*\*\*\*
  - PH825 Analysis of Emerging Infections Using the One Health Approach (4 cr)
- The following courses are *typically* offered in the *Spring*:
  - EH705 Toxicology for Public Health (2 cr) (can't be taken together with EH768 for credit)
  - EH707 Physiology for Public Health (2 cr) (can't be taken together with EH710 for credit)
  - EH713 Essentials of Genetic Technologies and the Future of Public Health (4 cr)
  - EH722 Climate Change and Health Equity (4 cr)\*\*\*\*
  - EH727 Incorporating Health to Design Healthy Climate Solutions (4 cr)\*\*\*\*
  - EH730 Methods in Environmental Health Sciences (4 cr)
  - EH735 Environmental Determinants of Infectious Disease (2 cr)
  - EH757 Environmental Epidemiology (4 cr)
  - EH768 Toxicology for Environmental Health and Epidemiology (4 cr) (can't be taken together with EH705 for credit)\*\*\*\*
  - EH805 Environmental Health Science, Policy and Law (please note: only offered in alternating years; EVEN years)
  - EH851 Advanced GIS for Public Health and Climate Research (4 cr)\*\*\*\*
  - EH872 Environmental Data and Exposure Modeling (4 cr) (please note: only offered in alternating years; ODD years)
  - PH737 Geographic Information Systems (GIS) for Public Health Decision Making (2 cr)

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