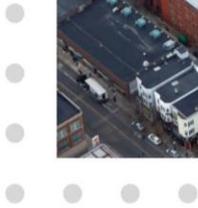




HARVARD
T.H. CHAN

SCHOOL OF PUBLIC HEALTH
Powerful ideas for a healthier world



2025-2026

MPH Curriculum Guide

GLOBAL HEALTH
HEALTH MANAGEMENT
HEALTH POLICY
HEALTH & SOCIAL BEHAVIOR
OCCUPATIONAL & ENVIRONMENTAL HEALTH
QUANTITATIVE METHODS

45-Credit Program
(On-Campus)

TABLE OF CONTENTS

| | |
|--|-----------|
| <i>MPH LEADERSHIP AND ADMINISTRATION</i> | <i>1</i> |
| <i>HARVARD CHAN ESSENTIAL RESOURCES FOR STUDENTS</i> | <i>2</i> |
| <i>DEGREE REQUIREMENTS AND PROGRAM POLICIES</i> | <i>3</i> |
| <i>MASTER OF PUBLIC HEALTH: PROGRAM OVERVIEW</i> | <i>6</i> |
| <i>MPH PUBLIC HEALTH CORE CURRICULUM</i> | <i>7</i> |
| <i>APPLIED PRACTICE EXPERIENCE AND INTEGRATIVE LEARNING EXPERIENCE</i> | <i>11</i> |
| <i>FIELD OF STUDY CURRICULA</i> | <i>13</i> |
| <i>FIELD OF STUDY: GLOBAL HEALTH</i> | <i>14</i> |
| <i>FIELD OF STUDY: HEALTH MANAGEMENT</i> | <i>17</i> |
| <i>FIELD OF STUDY: HEALTH POLICY</i> | <i>21</i> |
| <i>FIELD OF STUDY: HEALTH AND SOCIAL BEHAVIOR</i> | <i>25</i> |
| <i>FIELD OF STUDY: OCCUPATIONAL AND ENVIRONMENTAL HEALTH</i> | <i>28</i> |
| <i>FIELD OF STUDY: QUANTITATIVE METHODS</i> | <i>32</i> |
| <i>ONLINE ELECTIVE COURSES</i> | <i>36</i> |

While every effort has been made to ensure that the information contained in this guide is accurate at the time of publication (August 20, 2025) the Harvard T.H. Chan School of Public Health reserves the right to make changes, at any time, regarding the curriculum, degree requirements, course offerings, policies, or any other information contained herein. This version of the MPH-45 Curriculum Guide only pertains to students in the above fields of study matriculating in summer or fall 2025. Students in the Clinical Effectiveness, Epidemiology, and Generalist fields of study should refer to their respective curriculum guides.

MPH LEADERSHIP AND ADMINISTRATION

The Master of Public Health program is a school-wide degree program governed by the MPH Steering Committee and supported by the Office of Educational Programs and the academic department(s) related to each of the fields of study.

| MPH LEADERSHIP AND ADMINISTRATION – OFFICE OF EDUCATIONAL PROGRAMS | | |
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| <i>Epidemiology (EPI) (Online/On-Campus)</i> | Heather Baer hbaer@bwh.harvard.edu | Stephanie Lemoine slemoine@hsph.harvard.edu Elizabeth Breazeale lbreazeale@hsph.harvard.edu |
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| <i>Occupational & Environmental Health (OEH)</i> | Stefanos Kales skales@hsph.harvard.edu | Alice Rugoletti arugoletti@hsph.harvard.edu |
| <i>Quantitative Methods (QM)</i> | Murray Mittleman mmittlem@hsph.harvard.edu | Emily Davies and Nkwanz Sabiti mph@hsph.harvard.edu |

HARVARD CHAN ESSENTIAL RESOURCES FOR STUDENTS

MPH PROGRAM OFFICE – OFFICE OF EDUCATIONAL PROGRAMS (MPH-OEP)

[hsph.me/hsph-program-team](https://hsph.harvard.edu/hsph-program-team) ♦ mph@hsph.harvard.edu ♦ 617-432-0090
677 Huntington Avenue, Kresge G-29
Boston, MA 02115

- **Signature for General Petitions and other forms**
Emily Davies, Kresge G-29, or mph@hsph.harvard.edu
- **MPH Public Health Core:** Ying-Ju Lai, ylai@hsph.harvard.edu
- **ID 100 Waivers:** ID100@hsph.harvard.edu
- **ID 201 Waivers:** [Waiver of Core Courses Form](#)
- **Field of Study Waiver and Substitution Requests:** MPH-OEP Office
mph@hsph.harvard.edu, Field of Study Leader, and Academic Administrator(s)

REGISTRAR'S OFFICE

[hsph.me/registrar](https://hsph.harvard.edu/registrar) ♦ Kresge G-4 Suite ♦ registrar@hsph.harvard.edu ♦ 617-432-1032

- [Academic Calendar](#)
- [Harvard Course Catalog](#)
- [Student Handbook](#)
- [Student Knowledge Center](#): information about course enrollment, cross-registration, etc.

OFFICE OF CAREER & PROFESSIONAL DEVELOPMENT

[hsph.me/careers](https://hsph.harvard.edu/careers) ♦ Kresge G-4 Suite ♦ careers@hsph.harvard.edu

OFFICE FOR COMMUNITY AND BELONGING

[hsph.me/ocb](https://hsph.harvard.edu/ocb) ♦ Kresge G-4 Suite ♦ ocb@hsph.harvard.edu

OFFICE OF FINANCIAL AID

[hsph.me/fin-aid-office](https://hsph.harvard.edu/fin-aid-office) ♦ Kresge G-4 Suite ♦ financialaid@hsph.harvard.edu

OFFICE OF REGULATORY AFFAIRS & RESEARCH COMPLIANCE

Visit [hsph.me/HLC_IRB](https://hsph.harvard.edu/HLC_IRB) for Institutional Review Board (IRB) guidance

OFFICE FOR STUDENT AFFAIRS

[hsph.me/student-affairs](https://hsph.harvard.edu/student-affairs) ♦ Kresge G-4 Suite ♦ studentaffairs@hsph.harvard.edu

- [Housing Resources](#)
- [Student Support Services](#)

OFFICE OF DEVELOPMENT ALUMNI RELATIONS

[hsph.me/alumni-relations](https://hsph.harvard.edu/alumni-relations) ♦ 90 Smith Street, Fourth Floor ♦ alumni@hsph.harvard.edu

DEGREE REQUIREMENTS AND PROGRAM POLICIES

DEGREE REQUIREMENTS

All MPH-45 students must fulfill the following requirements:

- **45 credits** minimum
 - Minimum of **32.5 ordinal credits**
 - No more than **12.5 pass/fail credits** (some required courses and all independent studies are P/F only)
- Successful completion of all courses required by students' fields of study
- Applied Practice Experience
- Integrative Learning Experience
- Cumulative grade point average of at least 2.7

PROGRAM POLICIES FOR MPH-45 STUDENTS

Below are the main program policies that apply to all academic year (residential) MPH-45 students:

- Can take a maximum of **27.5 credits** in fall and spring semesters
- Limited to a maximum of **3.75 credits of online elective courses** (see list on p. 36) **in any semester** with a maximum of **10 credits of online elective courses overall**
 - Some MPH core courses (ID 100, MPH 101 – MPH 105) are online only or offer an online section for part-time students. Those do NOT count towards the online elective credit limits outlined above.
- All full-time MPH students are expected to participate in a **Winter Session** activity that furthers their educational goals and is approved by the MPH-OEP Office. Winter Session credits count towards spring semester credit totals. Visit the [MPH-OEP's website](#) for more guidance.

IMPORTANT ENROLLMENT POLICY FOR INTERNATIONAL STUDENTS

International students who are on a student visa must enroll in a minimum of 15 credits per fall and spring semester, including a minimum of 11.25 credits of in-person courses per semester. Students can determine their in-person course credits by looking at “instruction mode” in the course listings in the [Harvard Course Catalog](#).

ACADEMIC DEADLINES & HARVARD EMAIL

Students are responsible for knowing and meeting all deadlines and regularly reading their Harvard email. HSPH's academic calendar is posted on the [Registrar's Office website](#).

TRANSFER CREDITS, WAIVERS, & SUBSTITUTIONS

The Harvard Chan School does not accept transfer credits from other academic institutions. However, students who have taken equivalent courses at another institution may petition to waive a requirement. (MPH 101 – 105 cannot be waived.) If a waiver is approved, the MPH-45 student must still fulfill the 45-credit minimum requirement to graduate. Visit the [MPH-OEP Office's website](#) for more information.

To transfer non-degree credits earned at the Harvard Chan School, students must submit a [Non-Degree Credit Transfer Form](#). Students may petition to transfer a maximum of 20

non-degree Harvard Chan credits towards their degree program. These credits must have been completed within five years of matriculating in the degree program. To understand the financial implications of transferring non-degree credits into the degree program, visit the [Non-Degree Transfer Credits](#) page on the Student Billing website.

FIELD OF STUDY CHANGES

Visit [the MPH-OEP's website](#) for information about changing your field of study.

STUDENT STATUS (FULL-, PART-, & HALF-TIME)

For definitions of full-, part-, and half-time status, see [the Harvard Chan School Student Handbook](#). Adjusting your student status may affect your student health insurance, billing, graduation date, student loans, grants, scholarships, and/or student visa (if applicable). Therefore, students considering changing their student status may want to contact:

1. MPH-OEP Office – mph@hsph.harvard.edu
2. Registrar's Office – registrar@hsph.harvard.edu
3. Office of Financial Aid – financialaid@hsph.harvard.edu
4. Harvard International Office (Elizabeth Capuano) – elizabeth_capuano@harvard.edu

HARVARD CHAN SEMESTER-BASED SYSTEM

Visit [the MPH-OEP website](#) for more information.

ENROLLING IN ONLY ONE SESSION AND/OR ONE CLASS IN A SEMESTER

Students taking only Fall 2 or Spring 2 courses must still enroll in those courses by the Fall 1 or Spring 1 add/drop deadlines, respectively, or otherwise risk being withdrawn from degree candidacy. If a student enrolls in only one course in a semester, the course must be in-person. Winter Session credits count toward the Spring Semester total credit count.

LEAVE OF ABSENCE

Students who are unable to enroll in ANY credits in a specific semester must apply for a leave of absence or risk being withdrawn from degree candidacy. If planning to take a leave, students should contact the MPH-OEP Office. The student will need to complete a [Leave of Absence Petition](#).

BILLING & ENROLLMENT

For questions about tuition or student billing, visit the [Student Billing website](#). To discuss your student status and implications for credit load minimums and maximums, contact the Registrar's Office (registrar@hsph.harvard.edu).

Full-Time Students

Full-time, MPH-45 students are required to complete a minimum of 45 credits in a one-year program. Students are generally advised to register for approximately 22.5–25 credits per semester.

Part-Time Students

Part-time, MPH-45 students are required to complete the degree over two years. Part-time students should prioritize required courses during their first year, with the exception of their Applied Practice Experience and Integrative Learning Experience.

- International students who are on a student visa may not be part-time. If you have questions regarding your student visa, please speak with the Harvard International Office (HIO) (elizabeth_capuano@harvard.edu) and with the [Registrar's Office](#).

MASTER OF PUBLIC HEALTH: PROGRAM OVERVIEW

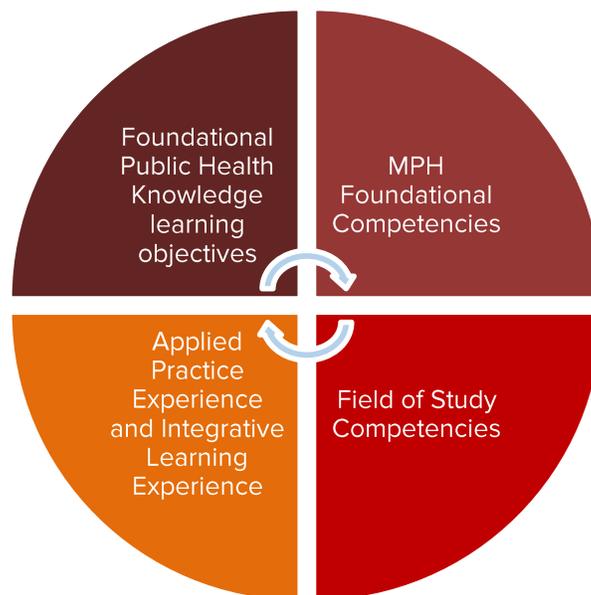
The MPH degree is the most widely recognized professional credential for leadership in public health. The MPH curriculum emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health. The program is organized around the Foundational Public Health Knowledge learning objectives, the MPH Foundational Competencies, the Applied Practice Experience, and the Integrative Learning Experience laid out by the Council on Education for Public Health (CEPH). Students pursue a career-oriented field of study. Each field of study has defined five distinct competencies that enhance the 12 Foundational Public Health Knowledge learning objectives and the 22 MPH Foundational Competencies.

HARVARD CHAN'S COMPETENCY AND APPLICATION-BASED MPH CURRICULUM

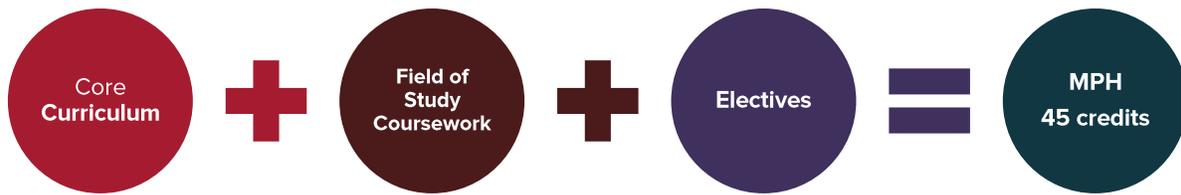
The *MPH public health core curriculum* is developed in accordance with the Council on Education for Public Health's 12 Foundational Public Health Knowledge learning objectives and 22 MPH Foundational Competencies required of all students receiving an MPH degree at accredited institutions.

The Foundational Public Health Knowledge learning objectives and the MPH Foundational Competencies are primarily met through the Harvard Chan MPH public health core curriculum, the Applied Practice Experience, and the Integrative Learning Experience.

The Harvard Chan MPH Degree



MPH PUBLIC HEALTH CORE CURRICULUM



MPH PUBLIC HEALTH CORE CURRICULUM

The MPH public health core curriculum is comprised of:

- **Biostatistics and Epidemiology Core** course(s);
- **ID 100: *Foundations for Public Health***, a school-wide, pre-matriculation course that provides foundational public health knowledge;
- **MPH 101–MPH 105**, five courses that cover other foundational public health competencies.

Full-time MPH-45 students are expected to complete the MPH public health core curriculum by the end of the fall semester. Part-time MPH students are strongly encouraged to complete the MPH public health core curriculum during their first year to ensure early grounding in the foundational principles of public health. Additional offerings of MPH 101, MPH 102, MPH 103, and MPH 104 outside of the fall semester are available for part-time students (see p. 10).

MPH 101–MPH 105 cannot be waived; however, students in some fields of study may be exempt from one of the MPH 102–MPH 105 core courses because the course competencies are covered by their field of study requirements.

BIostatistics and Epidemiology Core

| Course Number | Title | Semester | Credits | Fields of Study |
|---|--|-----------|---------|---|
| Option 1: Integrated Biostatistics and Epidemiology (7.5 credits) | | | | |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | Fall only | 7.5 | GH, HM, HP, HSB, OEH |
| Option 2: Advanced Biostatistics and Epidemiology (10 credits) | | | | |
| The advanced biostatistics and epidemiology option outlined below is required for students in the Quantitative Methods field of study. | | | | |
| With instructor permission and no course conflicts with field of study requirements, MPH-45 students in other fields of study may choose the advanced sequence, totaling 10 credits , in lieu of ID 201. | | | | |
| BST 201 | Introduction to Statistical Methods | Fall | 5.0 | Required: QM |
| EPI 201 & EPI 202 | Introduction to Epidemiology: Methods I | Fall 1 | 2.5 | Other FoS: Requires instructor permission |
| | Epidemiologic Methods II: Elements of Epidemiologic Research | Fall 2 | 2.5 | |
| Summer Start Option (10 credits) | | | | |
| Summer-start QM students take BST 202 (Summer 1), BST 203 (Summer 2), EPI 500 (Summer 1), and EPI 202S (Summer 2) | | | | |

MPH PUBLIC HEALTH CORE

| Course Number | Title | Semester | Credits | Course Format/Notes |
|--|---|--------------------|--------------------------|--|
| ID 100 | Foundations for Public Health | Summer into Fall 1 | 1.0 (Pass/Fail Only) | Asynchronous, self-paced, and online. Takes approx. 10–12 hours total. Students will gain access to course site on Canvas in summer and must complete all modules by 11:59PM, Sunday, August 24th, 2025. In Fall 1, students will formally enroll in ID 100 and receive one credit. No further work is required after August 24 th . |
| MPH 101 | Qualitative Methods for Public Health: A Brief Introduction | Fall 2 | 0.25 (Pass/Fail Only) | Asynchronous, online, with set deadlines for each module. Takes approx. 8–10 hours total. |
| <p>MPH 102, MPH 103, and MPH 104 each have three sections in the Fall Semester.</p> <ul style="list-style-type: none"> • Full-time students are required to enroll in Section 1 or Section 2 (four weeks) and the accompanying lab section. • While Sections 1 and 2 are only four weeks long, students should still comply with the drop/add/course change deadlines for Fall 1 and Fall 2. <p>MPH 105 has one section, is four weeks long, and is offered in Fall 2 only.</p> | | | | |
| MPH 102 | Health Systems | Fall 1 | 1.25 | <p>Section 1 & Section 2 Sep. 2 – Sep. 26 Four weeks; in-person on Mondays and Wednesdays; must be taken with the required lab section.</p> <p>Section 3 Sep. 2 – Oct. 24 Eight weeks; asynchronous, online, with set deadlines for each module; available to part-time students only.</p> <p><i>Not required for GH students</i></p> |
| MPH 103 | Leadership and Communication | Fall 2 | 1.25 | <p>Section 1 & Section 2 Oct. 27 – Nov. 21 Four weeks; in-person on Mondays and Wednesdays; must be taken with the required lab section.</p> |

| | | | | |
|---------|---|--------|------|---|
| | | | | <p>Section 3 Oct. 27 – Dec. 19 Eight weeks; asynchronous, online, with set deadlines for each module; available to part-time students only.</p> |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | Fall 1 | 1.25 | <p>Section 1 & Section 2 Sep. 29 – Oct. 24 Four weeks; in-person on Mondays and Wednesdays; must be taken with the required lab section.</p> <p>Section 3 Sep. 2 – Oct. 24 Eight weeks; asynchronous, online, with set deadlines for each module; available to part-time students only.</p> <p><i>Not required for HSB students</i></p> |
| MPH 105 | Public Health Policy and Politics | Fall 2 | 1.25 | <p>Nov. 24 – Dec. 19 Four weeks; live, online lectures on Zoom on Mondays and Wednesdays.</p> <p><i>Not required for HP students.</i></p> |

ADDITIONAL OFFERINGS – MPH PUBLIC HEALTH CORE

*Part-time MPH-45 students may also take **MPH 101, MPH 102, MPH 103, MPH 104** in Summer or Winter Session. In Summer and Winter, the courses are available in online format only.*

| Course Number | Title | Additional Semester(s) Offered | Credits |
|---------------|---|--------------------------------|---------|
| MPH 101 | Qualitative Methods for Public Health: A Brief Introduction | Summer | 0.25 |
| MPH 102 | Health Systems | Summer Winter Session | 1.25 |
| MPH 103 | Leadership and Communication | Summer Winter Session | 1.25 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | Summer Winter Session | 1.25 |

APPLIED PRACTICE EXPERIENCE AND INTEGRATIVE LEARNING EXPERIENCE

Each field of study in the MPH program requires 1) an **Applied Practice Experience (APE)** (“Practicum”), and 2) an **Integrative Learning Experience (ILE)**. All MPH students at accredited schools of public health in the U.S. must complete these two degree requirements. The following guidelines may vary slightly by field of study.

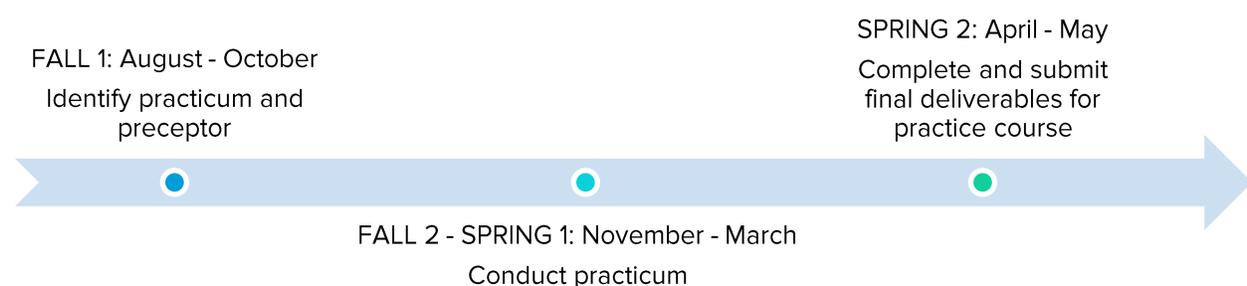
APPLIED PRACTICE EXPERIENCE

All MPH-45 students complete a minimum of 120 hours toward their Applied Practice Experience (APE), referred to as a “practicum.” Students complete their APE within a course that is specific to their field of study. The APE is generally completed by working on a project under the guidance of a preceptor at an outside organization. The APE is an opportunity to apply a total of five MPH competencies to a real-world public health problem or issue that is salient to a health care or public health organization and to produce work that is of value to the organization.

Part-time students must arrange their practicum timeframe and practice course enrollment with the approval of their practice course instructor. Part-time students are encouraged to meet with the Field Education and Practice Office (mph-practice@hsph.harvard.edu) early in their program to discuss proposed arrangements before finalizing their plans with their practice course instructor.

Timeline for Applied Practice Experience

Students in the **Global Health, Health Management, Health Policy, Health and Social Behavior, Occupational and Environmental Health, and Quantitative Methods** fields of study will enroll in their APE course during the academic year and complete a 120-hour practicum during the academic year to meet the degree requirement. The majority of the practicum work takes place between November and March, with presentations in April and May. It is the responsibility of the student to identify their practicum project. Students are encouraged to meet individually with their practice course instructor early in their program to discuss their interests and initiate their practicum search.



Students in the **Clinical Effectiveness, Epidemiology, and Generalist** fields of study should refer to their respective curriculum guides for Applied Practice Experience and Integrative Learning Experience information, including the timing of their APE and ILE courses.

Learning Agreement

Prior to starting a practicum, students must complete a Learning Agreement, which outlines the scope, deliverables, work plan, proposed competencies, and timeframe for the project. Learning Agreements must be approved by the practice course instructor. Learning Agreements are approved through the CareerConnect web portal and electronically signed by the student, the preceptor, and the practice course instructor before the practicum begins.

Applied Practice Experience Products

Students will submit a minimum of two products that they produce during their practicum to demonstrate a total of five competencies that are defined by each field of study. The competencies will include three MPH foundational competencies and two field of study-specific competencies.

Resources for Identifying a Practicum

[Practica and abstracts](#) from previous years
[CareerConnect](#)

International Students

International students should consult with Elizabeth Capuano (elizabeth_capuano@harvard.edu) in the Harvard International Office about practicum-related student visa questions and documentation required for Curricular Practical Training (CPT) authorization prior to the start of their practicum.

INTEGRATIVE LEARNING EXPERIENCE

The Integrative Learning Experience (ILE) is a culminating experience that requires students to integrate and synthesize specific MPH foundational and field of study competencies that are gained in coursework and other parts of the MPH program. Students in each field of study complete their ILE as part of a for-credit course during their last semester. The syllabus for the ILE course for each field of study will provide details about the culminating experience process.

A paper, presentation, class-based activity, applied project, and/or other assignments are determined by each field of study to demonstrate mastery of MPH Foundational Competencies and field of study competencies.

[MPH competencies](#) are achieved through successful coursework, field practice, extracurricular activities, and other learning opportunities that students identify independently.

FOR MORE DETAILS

[Office of Field Education and Practice](#)
[Applied Practice Experience requirements and resources](#)

FIELD OF STUDY CURRICULA

NAVIGATING YOUR FIELD OF STUDY

The following sections provide more detailed information for each field of study, including an **overview**, field of study **competencies**, and the field of study **curriculum** that is designed to help students achieve those competencies. A **sample schedule** is also provided.

Supplements to the MPH Curriculum Guide provide additional details on **required**, **recommended**, and/or **suggested elective courses** for some fields of study.

ADVISING

Each student will be assigned a primary faculty academic advisor based on the student's interests. Students may request a change of advisor once the term begins and should contact the MPH-OEP Office with any advising concerns.

Students are encouraged to carefully review the field of study requirements and consult with their faculty advisor to choose elective courses. With advisor oversight, students can identify graduate-level elective courses across the University, and at MIT and Tufts, that meet their career goals and allow them to take full advantage of being at Harvard. Academic advisors review proposed cross-registered courses to ensure they align with the public health career goals of students.

The MPH-OEP Office is a good resource for questions regarding the MPH public health core curriculum and graduation. Faculty advisors, field of study leaders, departmental faculty with specific areas of expertise, and academic administrators can all serve as advisors in unofficial capacities too. Visit the *MPH-OEP's website* for more resources on planning your program.

INTERDISCIPLINARY CONCENTRATIONS

Degree candidates have the option of pursuing a variety of *interdisciplinary concentrations*. These concentrations are non-degree programs designed to deepen students' experience in academic or professional areas aligned with their career goals. Some concentrations are restricted to students in certain fields of study/programs

TRACKING YOUR DEGREE PROGRESS

The MPH-OEP Office offers *degree audit sheets* for each field of study.

GRADUATION

Completion of the MPH public health core curriculum and field of study requirements for the MPH degree is monitored by the MPH-OEP Office. It is the student's responsibility to proactively reach out to the MPH-OEP Office, field of study leader, and/or academic administrator(s) if any concerns arise.

FIELD OF STUDY: GLOBAL HEALTH

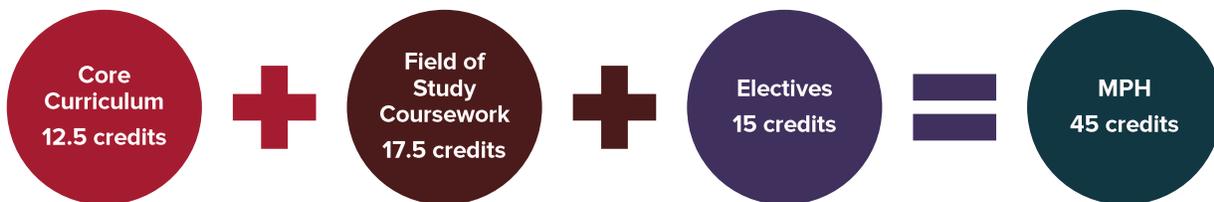
CURRICULUM OVERVIEW

The **Global Health (GH) field of study** prepares health professionals with prior relevant global health experience for leadership and management roles in global health at subnational, national, or international levels. Students learn from the required MPH public health core curriculum as well as required courses in global health challenges and strategies, economic and political analysis, and ethics. While “global” is understood to include environments of all types, including highly developed economies, the primary focus of courses included in this curriculum is on lower- and middle-income countries. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students also have credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Examine the quantitative and qualitative evidence of a wide variety of global health challenges and settings
2. Evaluate global health interventions under different circumstances with different objectives (e.g. their relationship with health system reform)
3. Solve economic problems and write critically about applying concepts from health economics to global health
4. Identify key principles and domains of consequential leadership, and how they are applied in the practice of public health in global institutions
5. Analyze the ethical dimensions of global health problems, policies, and/or systems according to various ethical perspectives

MPH-45 in Global Health



MPH-45 in Global Health

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|---|---|--------------|--------------------|
| MPH PUBLIC HEALTH CORE CURRICULUM (12.5 credits) | | | |
| To learn more about the MPH core and additional offerings, see pp. 7–10. <i>GH students are exempt from MPH 102.</i> | | | |
| ID 100 | Foundations for Public Health (Pre-matriculation coursework begins online in summer) | 1.0 | Fall 1 |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5 | Fall |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25 | Fall 1 |
| MPH 105 | Public Health Policy and Politics | 1.25 | Fall 2 |
| FIELD OF STUDY REQUIREMENTS (17.5 credits) | | | |
| GHP 230 | Introduction to Economics with Applications to Health and Development | 2.5 | Fall 1 |
| GHP 557 | Fundamentals of Global Health | 5.0 | Fall |
| ID 250 | Ethical Basis of the Practice of Public Health | 2.5 | Fall |
| Applied Practice Experience for Global Health | | | |
| GHP 945A GHP 945B | Applied Practice Experience for Global Health | 1.25 1.25 | Fall 1 Spring 2 |
| Integrative Learning Experience for Global Health | | | |
| GHP 530 | Consequential Leadership in Practice | 2.5 | Spring 2 |
| Additional GHP Coursework: Complete a minimum of 2.5 credits offered by the Dept. of Global Health and Population, beyond the above requirements | | | |
| Varies | Students are encouraged to develop specific strengths by focusing some of their GHP coursework via <i>interdisciplinary concentrations</i> (e.g., Nutrition and Global Health, Humanitarian Studies, etc.), or a sequence of courses in a particular theme such as Health Systems or Population and Family Health. Independent Studies (GHP 300) are not accepted. A full list of courses is available on the GHP website . | 2.5 | Fall &/or Spring |
| ELECTIVES (15 credits) | | | |
| See the online supplements for a sample list of cross-registered electives. | | | |

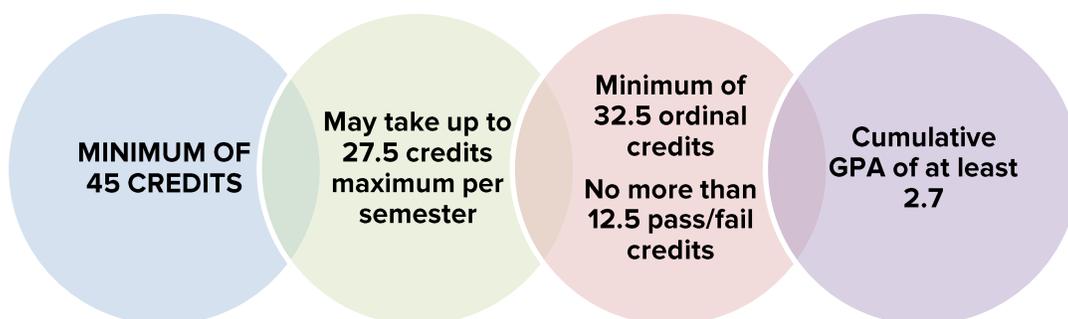
TOTAL 45 CREDITS

Notes

In circumstances where a field of study requirement is waived by the field of study leaders, students must still complete a minimum of 17.5 credits within the Department of Global Health and Population.

All full-time MPH students are expected to participate in a [Winter Session activity](#) that furthers their educational goals and is approved by the MPH-OEP Office.

Important Program Reminders



Sample Curriculum for MPH-45 in GH

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

| FALL (23.75 credits of required courses) | | | WINTER | SPRING (6.25 credits of required courses) | | | |
|--|--|--------|---|--|---|--------|--|
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0cr | GHP Travel Course (optional) and/or practicum | Varies | Additional GHP Coursework Requirement | 2.5cr | |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5cr | | GHP 530 | Consequential Leadership in Practice | 2.5cr | |
| MPH 101 | Qualitative Methods for Public Health | 0.25cr | | GHP 945B | Applied Practice Experience for Global Health | 1.25cr | |
| MPH 103 | Leadership and Communication | 1.25cr | | Electives | 15cr | | |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25cr | | Work on Practicum | | | |
| MPH 105 | Public Health Policy and Politics | 1.25cr | | | | | |
| GHP 230 | Introduction to Economics with Applications to Health and Development | 2.5cr | | | | | |
| ID 250 | Ethical Basis of the Practice of Public Health | 2.5cr | | | | | |
| GHP 557 | Fundamentals of Global Health | 5.0cr | | 21.25 credits (includes Winter Session) | | | |
| GHP 945A | Applied Practice Experience for Global Health | 1.25cr | | | | | |
| TOTAL CREDITS | 23.75 credits | | 21.25 credits (includes Winter Session) | | | | |

END OF PROGRAM = 45 credits

FIELD OF STUDY: HEALTH MANAGEMENT

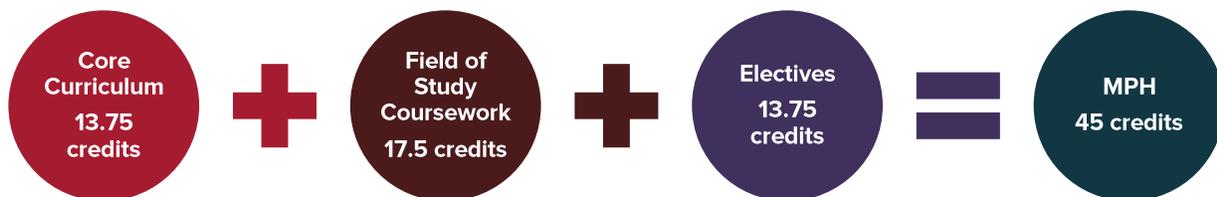
CURRICULUM OVERVIEW

The **Health Management (HM) field of study** prepares students for management careers in the unique environment of health care. The curriculum for the health management field of study consists of the required MPH public health core curriculum as well as required coursework to develop competency in financial literacy, innovative thinking, strategic acumen, health care quality, and change management. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students also have credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Explain and use financial data to assess financial health and make managerial decisions for a health care unit, organization, or system
2. Critically evaluate organizational and team structures, processes, and climates to initiate and sustain performance
3. Apply appropriate frameworks and analysis in the development of an organizational strategy
4. Explain the imperatives to improve health quality and apply methods of quality improvement to address a quality problem
5. Create an action plan to address an unmet public health need by applying key concepts and skills of innovation and entrepreneurship

MPH-45 in Health Management



MPH-45 in Health Management

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|---|--|---------|---------------------|
| MPH PUBLIC HEALTH CORE CURRICULUM (13.75 credits) | | | |
| To learn more about the MPH core, see pp. 7–10. | | | |
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0 | Fall 1 |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5 | Fall |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 102 | Health Systems | 1.25 | Fall 1 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25 | Fall 1 |
| MPH 105 | Public Health Policy and Politics | 1.25 | Fall 2 |
| FIELD OF STUDY REQUIREMENTS (17.5 credits) | | | |
| HPM 539 | Management Science for a New Era | 2.5 | Fall 2/ Spring 1 |
| Finance and Accounting: Choose two of the approved courses below | | | |
| HPM 219 | Financial Transactions and Analysis | 2.5 | Fall 1 |
| HPM 220 | Financial Management and Control | | Fall 2 |
| HPM 222 | Financial Management of Health Care Organizations | | Spring 2 |
| Innovation: Choose one of the approved courses below | | | |
| HPM 282 | Innovative Problem Solving and Design Thinking in HC | 2.5 | Fall 1 |
| HPM 557 | Innovation and Entrepreneurship in Health Care | | Fall 2 |
| Strategy: Choose one of the approved courses below | | | |
| DRPH 270 | Strategic Management in Global Settings | 2.5 | Spring 1 |
| HPM 231 | Healthcare Organizations and Strategy | | Spring 2 |
| Health Care Quality: Choose one of the approved courses below | | | |
| HPM 268 | Methods and Tools for Quality Improvement | 2.5 | Fall 2 |
| HPM 516 | Healthcare Quality and Equity in the US | | Spring 2 |
| HPM 568 | Designing and Managing Person-Centered, Safe Care Organizations | | Spring 1 |
| Applied Practice Experience & Integrative Learning Experience for Health Management | | | |
| HPM 946F | Applied Practice Experience for Health Management | 1.25 | Fall |
| HPM 946S | | 1.25 | Spring 2 |
| HPM 947 | Integrative Learning Experience for Health Management (MPH-45) | 0 | Spring 2 |
| ELECTIVES (13.75 credits) | | | |
| See the online supplements for a list of electives that may be of interest to <i>HM students</i> and a sample list of <i>cross-registered electives</i> . | | | |

TOTAL 45 CREDITS

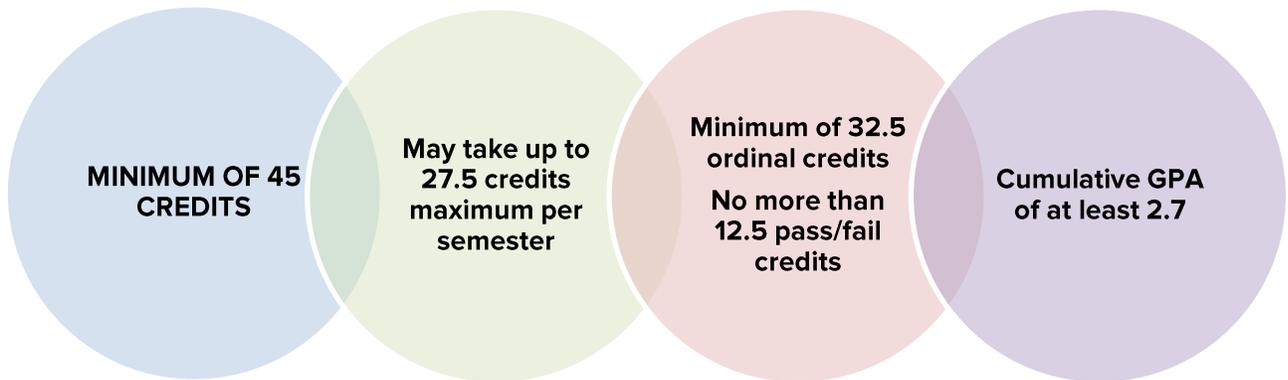
Notes

All full-time MPH students are expected to participate in a [Winter Session activity](#) that furthers their educational goals and is approved by the MPH-OEP Office.

For more student resources, visit the HPM – [Resources for New MPH Students](#).

HM field of study requirements cannot be waived.

Important Program Reminders



Sample Curriculum for MPH-45 in HM

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

*This requirement may be completed in either the fall or spring semester.

| FALL (22.5 credits of required courses) | | | WINTER | SPRING (8.75 credits of required courses) | | | |
|---|--|--------|-------------------|---|---|--------|---|
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0cr | Work on Practicum | Varies | Strategy Requirement | 2.5cr | |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5cr | | Varies | Health Care Quality Requirement* | 2.5cr | |
| MPH 101 | Qualitative Methods for Public Health | 0.25cr | | Varies | Finance & Accounting Requirement* | 2.5cr | |
| MPH 102 | Health Systems | 1.25cr | | HPM 946S | Applied Practice Experience for HM | 1.25cr | |
| MPH 103 | Leadership and Communication | 1.25cr | | HPM 947 | Integrative Learning Experience for Health Management | 0cr | |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25cr | | Work on Practicum | | | |
| MPH 105 | Public Health Policy and Politics | 1.25cr | | | | | |
| Varies | Finance & Accounting Requirement* | 2.5cr | | | | | |
| Varies | Innovation Requirement | 2.5cr | | | | | |
| HPM 539 | Management Science for a New Era* | 2.5cr | | | | | |
| HPM 946F | Applied Practice Experience for HM | 1.25cr | | | | | |
| Electives | | 2.5cr | | | Electives | | 11.25cr |
| TOTAL CREDITS | 25 credits | | | | | | 20 credits (includes Winter Session) |

END OF PROGRAM = 45 credits

FIELD OF STUDY: HEALTH POLICY

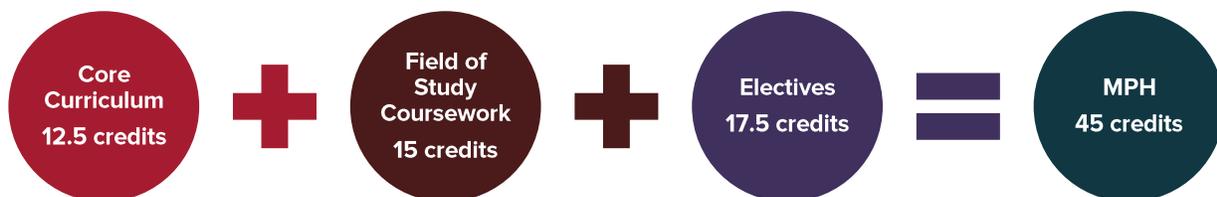
CURRICULUM OVERVIEW

The **Health Policy (HP) field of study** prepares students to apply economic, legal, and political analysis to the design, implementation, and evaluation of health care and public health policies in the United States or other countries with high-income economies. The curriculum for the health policy field of study consists of the required MPH public health core curriculum as well as required courses in economics, U.S. health policy, political analysis and strategy, and analytical methods. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students also have credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Apply economic concepts to analyze and critique health care and public health policies
2. Recommend a course of action to address a health policy challenge that includes assessing alternative approaches within a specific political, economic, and/or social context
3. Critically evaluate and draw policy implications from health decision science studies (including cost-effectiveness) or health policy program evaluations
4. Design an effective political strategy to influence a health policy outcome
5. Prepare professional quality health policy memos that are informed by skillful use of evidence and are appropriate to their purpose and audience

MPH-45 in Health Policy



MPH-45 in Health Policy

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|---|---|---------|----------|
| MPH PUBLIC HEALTH CORE CURRICULUM (12.5 credits) | | | |
| To learn more about the MPH core, see pp. 7–10. <i>HP students are exempt from MPH 105.</i> | | | |
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0 | Fall 1 |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5 | Fall |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 102 | Health Systems | 1.25 | Fall 1 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25 | Fall 1 |
| FIELD OF STUDY REQUIREMENTS (15 credits) | | | |
| HPM 206 | Economic Analysis | 2.5 | Fall 2 |
| HPM 210 | United States Health Policy | 2.5 | Fall 1 |
| HPM 247 | Political Analysis and Strategy for U.S. Health Policy | 2.5 | Spring 1 |
| Analytical Methods: choose one of the approved courses below | | | |
| RDS 280 | Decision Analysis for Health and Medical Practices | 2.5 | Fall 2 |
| HPM 543 | Quantitative Methods for Policy Evaluation | 2.5 | Spring 2 |
| | *With permission of the faculty field of study director, students may also take RDS 202 Decision Science for Public Health. | | |
| Additional Health Policy Coursework: Take an <i>additional 2.5 credits</i> of HPM health policy coursework. Some options are listed below. | | | |
| HPM 211 | The Health Care Safety Net & Marginalized Populations | | Fall 2 |
| HPM 213 | Public Health Law | | Spring 2 |
| HPM 509 | Disability Policy in the U.S. | | Spring 2 |
| HPM 511 | State Health Policy | | Spring 1 |
| HPM 516 | Healthcare Quality and Equity in the US | | Spring 2 |
| HPM 523 | Homelessness and Health: Lessons from Health Care, Public Health, and Research | | Spring 1 |
| HPM 545 | Economics of Health Care: Public vs. Market Resolutions | 2.5 | Spring 1 |
| HPM 561 | Loneliness and Public Health (1.25 credits) | | Winter |
| HPM 566 | Advocacy and Organizing for Health Policy | | Spring 1 |
| HPM 569 | Presidents and Pandemics | | Spring 1 |
| HPM 571 | For the Mission or the Money? Hospitals & the Changing Landscape of Health Care Provision in America | | Spring 2 |
| HPM 577 | Executive Branch Health Policy | | Fall 2 |
| ID 240 | Principles of Injury Control | | Spring 1 |

Applied Practice Experience & Integrative Learning Experience for Health Policy

| | | | |
|----------|--|-----|----------|
| HPM 945F | Applied Practice Experience & Integrative Learning | 2.5 | Fall |
| HPM 945S | Experience for Health Policy | | Spring 2 |

ELECTIVES (17.5 credits)

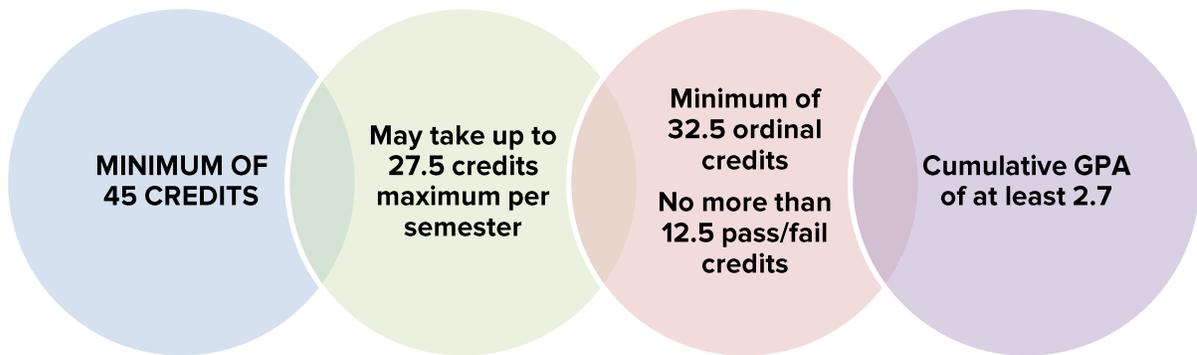
See the online supplements for a list of electives that may be of interest to [HP students](#) and a sample list of [cross-registered electives](#).

TOTAL 45 CREDITS**Notes**

All full-time MPH students are expected to participate in a [Winter Session activity](#) that furthers their educational goals and is approved by the MPH-OEP Office. To learn more, visit hsph.me/mpw-winter-session.

For more student resources, visit the HPM – [Resources for New MPH Students](#).

For information about waiving or substituting an HP field of study requirement, visit [the HPM Department website](#).

Important Program Reminders

Sample Curriculum for MPH-45 in HP

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

*This requirement may be completed in either the fall or spring semester.

| FALL (21.25 credits of required courses) | | | WINTER | SPRING (6.25 credits of required courses) | | |
|--|---|--------|--|---|--|--------|
| ID 100 | Foundations for Public Health (<i>Pre-matriculation coursework begins online in summer</i>) | 1.0cr | Work on Practicum | HPM 247 | Political Analysis and Strategy for U.S. Health Policy | 2.5cr |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5cr | | Varies | Additional Health Policy Coursework Requirement* | 2.5cr |
| MPH 101 | Qualitative Methods for Public Health | 0.25cr | | HPM 945F | Applied Practice Experience and Integrative Learning Experience for HP | 1.25cr |
| MPH 102 | Health Systems | 1.25cr | | | | |
| MPH 103 | Leadership and Communication | 1.25cr | | | | |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25cr | | | | |
| HPM 206 | Economic Analysis | 2.5cr | | | | |
| HPM 210 | United States Health Policy | 2.5cr | | | | |
| Varies | Analytical Methods Requirement* | 2.5cr | | | | |
| HPM 945S | Applied Practice Experience and Integrative Learning Experience for HP | 1.25cr | | | | |
| Electives | | 2.5cr | | | | 15cr |
| TOTAL CREDITS | 23.75 credits | | 21.25 credits (Includes Winter Session) | | | |

END OF PROGRAM = 45 credits

FIELD OF STUDY: HEALTH AND SOCIAL BEHAVIOR

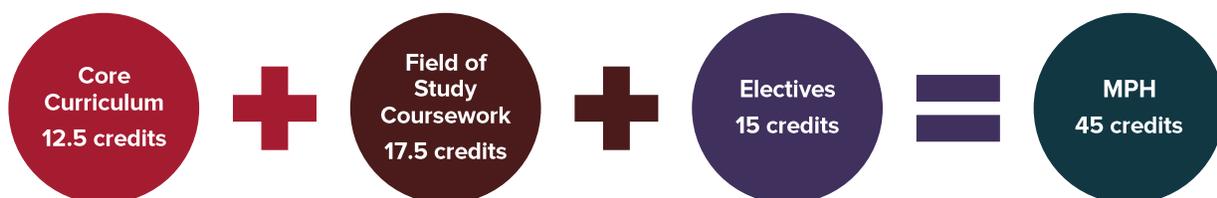
CURRICULUM OVERVIEW

The **Health and Social Behavior (HSB) field of study** is devoted to understanding health disparities, social determinants of health, and promoting social and health equity. The curriculum for the health and social behavior field of study consists of the required MPH public health core curriculum as well as required field of study-specific courses. HSB-45 students must take a survey course in society and health, three other specific SBS courses that apply these principles to understanding and intervening in the health of populations, as well as complete additional elective courses in the Department of Social and Behavioral Sciences. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students also have credits available for elective courses within or outside of SBS, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Design a proposed social and/or behavioral public health intervention using social and behavioral theories or conceptual paradigms as a guide
2. Assess theory-guided social and behavioral change interventions based on their appropriateness and responsiveness to the social and cultural context
3. Critically appraise principles of research, evaluation, and/or public health monitoring/surveillance methodology - including quantitative and qualitative methods - to address research hypotheses using a range of research designs
4. Describe and apply rigorous frameworks or theory-based approaches to research translation for practice, policy, and/or public health settings
5. Explain how principles of social inclusion, diversity, social justice, and/or ethics can be applied in research and interventions

MPH-45 in Health and Social Behavior



MPH-45 in Health and Social Behavior

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|--|--|---------|----------|
| MPH PUBLIC HEALTH CORE CURRICULUM (12.5 credits) | | | |
| To learn more about the MPH core and additional offerings, see pp. 7–10. <i>HSB students are exempt from MPH 104.</i> | | | |
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0 | Fall 1 |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5 | Fall |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 102 | Health Systems | 1.25 | Fall 1 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 105 | Public Health Policy and Politics | 1.25 | Fall 2 |

| FIELD OF STUDY REQUIREMENTS (17.5 credits) | | | |
|--|--|-----|--------|
| Students must take HSB field of study requirements for an ordinal grade. | | | |
| SBS 201 | Society and Health (+ required lab) | 2.5 | Fall 1 |
| SBS 281 | Principles of Social and Behavioral Research | 2.5 | Fall 2 |

Theory-Guided Research Translation: Choose one of the 3 approved courses below.

| | | | |
|---------|---|-----|----------|
| SBS 203 | Program Planning | 2.5 | Spring 1 |
| SBS 219 | High-Risk Behavior: Epidemiology and Prevention Strategies | | Spring 2 |
| SBS 514 | Reducing Socioeconomic & Racial/Ethnic Inequalities in Health: Concepts, Models, Effective Strategies | | Spring 1 |

Applied Practice Experience for Health and Social Behavior

| | | | |
|----------|-------------------------------------|------|----------|
| SBS 945F | Applied Practice Experience for HSB | 1.25 | Fall 1 |
| SBS 945S | | 1.25 | Spring 2 |

Integrative Learning Experience for Health and Social Behavior

| | | | |
|---------|--|-----|----------|
| SBS 508 | Successes and Challenges in Health Behavior Change | 2.5 | Spring 2 |
|---------|--|-----|----------|

Additional SBS Coursework: Complete a minimum of 5 credits of SBS coursework beyond the field of study requirements

| | | | |
|--------|--|-----|------------------|
| Varies | To view the full list of approved SBS course offerings, visit the SBS Department website . An independent study (e.g., SBS 300) does not count towards this requirement. | 5.0 | Fall &/or Spring |
|--------|--|-----|------------------|

ELECTIVES (15 credits)

The SBS Department offers two suggested approaches to help guide selection of elective courses, grouped as Research skills or Practice skills. These tracks are simply suggestions. These do not constitute a concentration and will not be reflected on the student's transcript. Students may opt to include a mix of courses from each track. This decision process should be guided by the student's academic advisor. The SBS Department offers a sample list of [courses for each track](#) and [approved SBS course offerings](#).

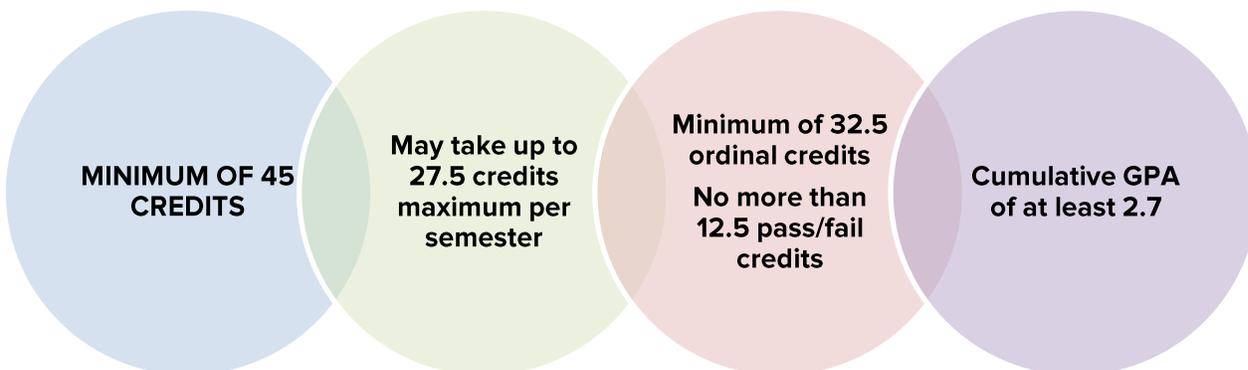
See the online [supplements](#) for a sample list of cross-registered electives.

TOTAL 45 CREDITS

Notes

All full-time MPH students are expected to participate in a *Winter Session activity* that furthers their educational goals and is approved by the MPH-OEP Office.

Important Program Reminders



Sample Curriculum for MPH-45 in HSB

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

| FALL (18.75 credits of required courses) | | | WINTER | SPRING (11.25 credits of required courses) | | |
|--|---|--------|-------------------|--|--|--|
| ID 100 | Foundations for Public Health (<i>Pre-matriculation coursework begins online in summer</i>) | 1.0cr | Work on Practicum | Varies | Theory-Guided Research Translation Requirement | 2.5cr |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5cr | | SBS 508 | Success and Challenges in Health Behavior Change | 2.5cr |
| MPH 101 | Qualitative Methods for Public Health | 0.25cr | | Varies | Additional SBS Coursework Requirement | 5.0cr |
| MPH 102 | Health Systems | 1.25cr | | SBS 945S | Applied Practice Experience for HSB | 1.25cr |
| MPH 103 | Leadership and Communication | 1.25cr | | Work on Practicum | | |
| MPH 105 | Public Health Policy and Politics | 1.25cr | | | | |
| SBS 201 | Society and Health (+ required lab) | 2.5cr | | | | |
| SBS 281 | Principles of Social and Behavioral Research | 2.5cr | | | | |
| SBS 945F | Applied Practice Experience for HSB | 1.25cr | | | | |
| Electives | | 3.75cr | | | | |
| TOTAL CREDITS | 22.5 credits | | | | | 22.5 credits (includes Winter Session) |

END OF PROGRAM = 45 credits

FIELD OF STUDY: OCCUPATIONAL AND ENVIRONMENTAL HEALTH

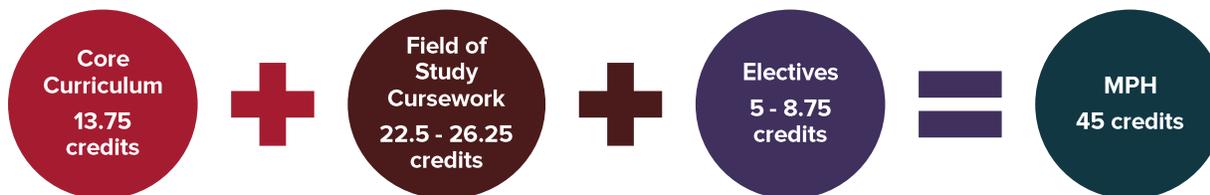
CURRICULUM OVERVIEW

The **Occupational and Environmental Health (OEH) field of study** focuses on workplace and environmental hazards, the physiological and biomechanical aspects of work, the risks posed by the interaction of genetic and environmental factors, and a practical approach to solving health problems in various work and community settings. The curriculum for the occupational and environmental health field of study consists of the required MPH public health core curriculum as well as required courses in occupational/environmental health. MPH students in the Occupational and Environmental Medicine Residency (OEMR) must also consult the residency's requirements (hsph.me/oemr). Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students also have credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Begin formulation of the differential diagnosis after acquiring an accurate and relevant history, including occupational history related to workplace or environmental exposures.
2. Develop a study in the field of environmental and occupational health that takes into account the principles of toxicology.
3. Assess environmental and occupational health hazards using core principles of industrial hygiene, ergonomics, occupational safety, and risk/hazard control and communication (e.g., recognition of regulatory standards and guidelines).
4. Identify and evaluate workplace and environmental causes of injury or illness and recommend controls or programs to reduce exposure, and to enhance the health and productivity of workers under minimal supervision.
5. Apply epidemiological and risk-based concepts to public policy or the actions of regulatory agencies.

MPH-45 in Occupational and Environmental Health



MPH-45 in Occupational and Environmental Health

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|---|--|-----------------|--------------------|
| MPH PUBLIC HEALTH CORE CURRICULUM (13.75 credits) | | | |
| To learn more about the MPH core, see pp. 7–10. | | | |
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0 | Fall 1 |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5 | Fall |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 102 | Health Systems | 1.25 | Fall 1 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25 | Fall 1 |
| MPH 105 | Public Health Policy and Politics | 1.25 | Fall 2 |
| FIELD OF STUDY REQUIREMENTS (22.5 – 26.25 credits) | | | |
| Students must take OEH field of study requirements for an ordinal grade unless otherwise noted. | | | |
| EH 241 | Occupational Safety and Injury Prevention | 2.5 | Fall |
| EH 504 | Principles of Toxicology <i>(Students with a prior medical degree can take this course for 2.5 credits)</i> | 2.5–5.0 | Fall |
| HPM 548 | Responsible Conduct of Research* | 1.25 or audited | Fall 1 or Spring 1 |
| EH 231 | Occupational Health Policy and Administration | 2.5 | Spring |
| EH 232 | Introduction to Occupational and Environmental Medicine | 2.5 | Spring |
| ID 263 | Practice of Occupational Health | 5.0 | Spring |
| Applied Practice Experience for Occupational and Environmental Health | | | |
| EH 945S | Applied Practice Experience for Occupational and Environmental Health | 2.5 (P/F only) | Spring |
| Integrative Learning Experience for Occupational and Environmental Health | | | |
| EH 236 | Epidemiology of Environmental and Occupational Health Regulations | 5.0 | Spring |
| ELECTIVES (5 – 8.75 credits) | | | |
| See the online supplements for a sample list of cross-registered electives. | | | |

TOTAL 45 CREDITS

Notes

All full-time MPH students are expected to participate in a [Winter Session activity](#) that furthers their educational goals and is approved by the MPH-OEP Office.

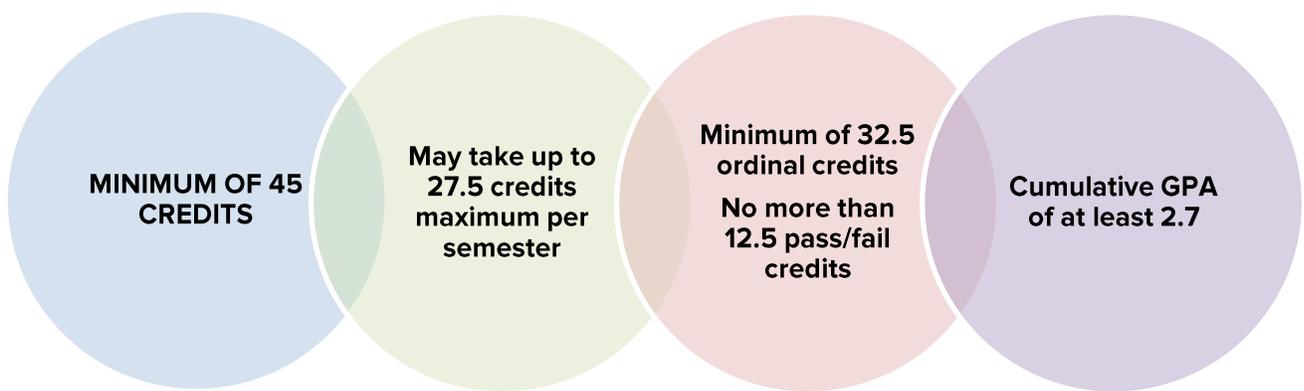
Occupational and Environmental Medicine Residency (OEMR)

MPH students in the Occupational and Environmental Medicine Residency must take ID 201, EH 232, and ID 263 for an **ordinal** grade. The Winter Session activity consists of an occupational medicine clinic at Cambridge Health Alliance (CHA).

*Harvard-National Institute for Occupational Safety and Health (NIOSH) Training Grant

MPH students who are Harvard-NIOSH Education and Research Center training grant awardees must take HPM 548: *Responsible Conduct of Research* (for credit or audited) as part of their field of study requirements. HPM 548 is recommended, but not required, for all other MPH-45 OEH students. For instructions on how to **audit** HPM 548, visit hsph.me/RCR.

Important Program Reminders



Sample Curriculum for MPH-45 in OEH (OEMR student)

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

*This requirement may be completed in either the fall or spring semester.

| FALL (18.75 credits of required courses) | | | WINTER | SPRING (17.5 credits of required courses) | | |
|--|--|-------------------|---|---|---|-------|
| ID 100 | Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i> | 1.0cr | Work on Practicum | EH 231 | Occupational Health Policy and Administration | 2.5cr |
| ID 201 | Core Principles of Biostatistics and Epidemiology for Public Health Practice | 7.5cr | | EH 232 | Introduction to Occupational and Environmental Medicine | 2.5cr |
| MPH 101 | Qualitative Methods for Public Health | 0.25cr | | EH 236 | Epidemiology of Environmental and Occupational Health Regulations | 5.0cr |
| MPH 102 | Health Systems | 1.25cr | | ID 263 | Practice of Occupational Health | 5.0cr |
| MPH 103 | Leadership and Communication | 1.25cr | | EH 945S | Applied Practice Experience for OEH | 2.5cr |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25cr | | Work on Practicum | | |
| MPH 105 | Public Health Policy and Politics | 1.25cr | | | | |
| EH 241 | Occupational Safety and Injury Prevention | 2.5cr | | | | |
| EH 504 | Principles of Toxicology | 2.5cr | | | | |
| HPM 548 | Responsible Conduct of Research <i>(optional)*</i> | 1.25cr or audited | | | | |
| Electives | | 3.75cr | | | | |
| TOTAL CREDITS | 22.5 credits | | 22.5 credits (includes Winter Session) | | | |

END OF PROGRAM = 45 credits

FIELD OF STUDY: QUANTITATIVE METHODS

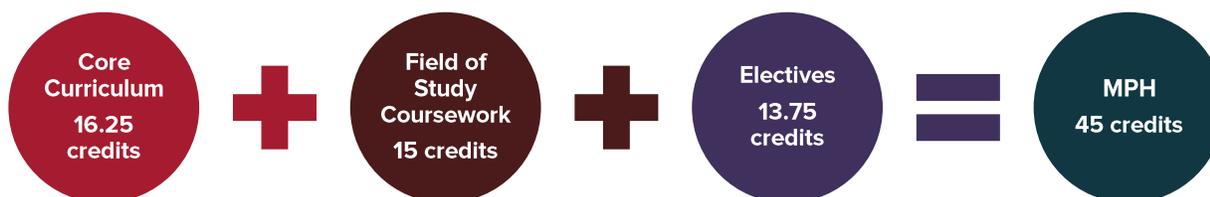
CURRICULUM OVERVIEW

The **Quantitative Methods (QM) field of study** provides students with the necessary quantitative and analytical skills to approach and solve problems in public health and clinical research and practice. The quantitative methods field of study curriculum consists of the required MPH public health core curriculum and introductory and intermediate courses in epidemiology and biostatistics. Students also take more advanced coursework in relevant quantitative areas such as epidemiology, biostatistics, demography, econometrics, quality improvement, and decision sciences. Students must also complete an approved Applied Practice Experience, an Integrative Learning Experience, and an additional practice-based course in an area such as survey research, clinical trials, meta-analysis, decision sciences, or other relevant quantitative areas. Students also have credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

1. Critically evaluate and apply principles of epidemiologic methods, including exposure and outcome measures, measures of association, bias and confounding, and study design options.
2. Demonstrate the ability to critically evaluate and apply appropriate biostatistical techniques for data arising from evaluation of public health problems (e.g., including basic probability theory and common distributions, effect measure estimation, continuous and categorical data analysis, parametric and non-parametric hypothesis tests, confidence intervals and p-values, correlation and basic regression techniques, and power/sample size calculations)
3. Design, implement, evaluate, and interpret univariate and multivariable regression methods appropriate for data arising from relevant public health and clinical research problems.
4. Apply and critically evaluate causal inference methods, such as the application of counterfactual conceptualizations and the use of Directed Acyclic Graphs, to the setting of observational studies relevant to public health and clinical applications.
5. Assess the validity and efficiency of different study designs for specific research questions through critical evaluation of contemporary studies published in the peer-reviewed literature.

MPH-45 in Quantitative Methods



MPH-45 in Quantitative Methods

CURRICULUM REQUIREMENTS

| Course Number | Title | Credits | Semester |
|--|---|------------|------------------|
| MPH PUBLIC HEALTH CORE CURRICULUM (16.25 credits) | | | |
| To learn more about the MPH core and additional offerings, see pp. 7–10. | | | |
| ID 100 | Foundations for Public Health (<i>Pre-matriculation coursework begins online in summer</i>) | 1.0 | Fall 1 |
| BST 201 | Introduction to Statistical Methods | 5.0 | Fall |
| EPI 201 & EPI 202 | Introduction to Epidemiology: Methods I Epidemiologic Methods II: Elements of Epidemiologic Research | 2.5 2.5 | Fall 1 Fall 2 |
| MPH 101 | Qualitative Methods for Public Health | 0.25 | Fall 2 |
| MPH 102 | Health Systems | 1.25 | Fall 1 |
| MPH 103 | Leadership and Communication | 1.25 | Fall 2 |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25 | Fall 1 |
| MPH 105 | Public Health Policy and Politics | 1.25 | Fall 2 |
| FIELD OF STUDY REQUIREMENTS (15 credits) | | | |
| BST 210 | Applied Regression Analysis or other approved alternative with permission of the field of study leader | 5.0 | Fall or Spring |
| Upper-Level QM Coursework | | | |
| Varies | Take <i>5 credits</i> (beyond the field of study requirements) of intermediate or advanced courses in EPI, BST, demography, decision sciences (RDS), or other approved quantitative sciences. | 5.0 | Fall &/or Spring |
| Applied Practice Experience and Integrative Learning Experience | | | |
| ID 945A | Applied Practice Experience & Integrative Learning | 1.25 | Fall |
| ID 945B | Experience for QM | 1.25 | Spring |
| Additional Practice Course or Field of Study-Approved Research Project: choose one course from the approved options below. Other options may be approved by the field of study leader. | | | |
| BST 209 | Machine Learning: Collaborative Data Sci. in Healthcare | 2.5 | Summer 2 |
| BST 212 | Survey Research Methods in Community Health | | Spring |
| BST 214 | Principles of Clinical Trials | | Spring 1 |
| BST 217 | Statistical and QM for Pharmaceutical Regulatory Science | | Spring 2 |
| BST 225 | Intro. to Systematic Reviews and Meta-Analysis Methods | | Summer 2 |
| BST 263 | Statistical Learning | | Spring |
| EPI 233 | Research Synthesis and Meta-Analysis | | Spring |
| EPI 288 | Introduction to Data Mining and Risk Prediction | | Spring |
| EPI 286 | Database Analytics in Pharmacoepidemiology | | Fall 2 |
| EPI 501 | Dynamics of Infectious Diseases | | Spring 1 |
| EPI 528 | Systematic Review and Meta-Analysis | | Fall (ONLINE) |
| GHP 537 | Field Methods in Humanitarian Crisis | | Spring 1 |

| | | |
|---------|--|----------|
| ID 240 | Principles of Injury Control | Spring 1 |
| SBS 500 | Developing a Research Protocol | Spring |
| SBS 550 | Program Evaluation | Winter |
| RDS 282 | Economic Evaluation of Health Policy and Program Mgmt.^ | Spring 2 |
| RDS 285 | Decision Analysis Methods in Public Health and Medicine^ | Spring 1 |
| | ^Pre-req of RDS 280 or RDS 286 | |
| | or | |
| ID 945C | Field of Study-Approved Research Project | Spring 2 |

ELECTIVES (13.75 credits)

See the online [supplements](#) for a sample list of cross-registered electives.

TOTAL 45 CREDITS

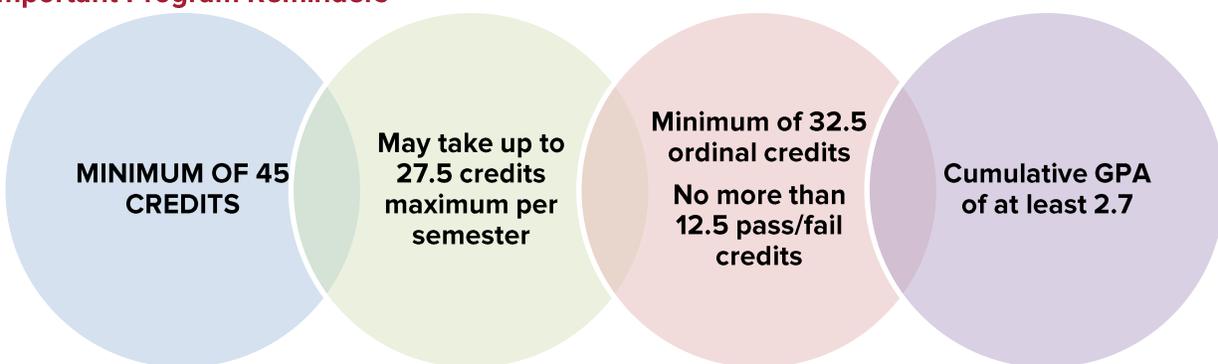
Notes

All full-time MPH students are expected to participate in a [Winter Session activity](#) that furthers their educational goals and is approved by the MPH-OEP Office.

QM students who start in summer may take BST 202, BST 203, EPI 500, and EPI 202S to fulfill their biostatistics and epidemiology core requirements in lieu of BST 201, EPI 201, and EPI 202 in fall.

QM students who have completed the Program in Clinical Effectiveness (PCE) may use BST 206, BST 207, and EPI 208 to fulfill their biostatistics and epidemiology core requirements in lieu of BST 201 and EPI 201 in fall. However, they **must still take EPI 202 in summer or fall.**

Important Program Reminders



Sample Curriculum for MPH-45 in QM

Full-time students may take a maximum of 27.5 credits per fall and spring semester.

*This requirement may be completed in either the fall or spring semester.

| FALL (17.5 credits of required courses) | | | WINTER | SPRING (13.75 credits of required courses) | | |
|---|---|--------|--|--|--|--------|
| ID 100 | Foundations for Public Health (<i>Pre-matriculation coursework begins online in summer</i>) | 1.0cr | Work on Practicum | BST 210 | Applied Regression Analysis* | 5.0cr |
| BST 201 | Introduction to Statistical Methods | 5.0cr | | Varies | Upper-Level QM Course(s)* | 5.0cr |
| EPI 201 | Introduction to Epidemiology: Methods I | 2.5cr | | Varies | Additional Practice Course* | 2.5cr |
| EPI 202 | Epidemiological Methods II: Elements of Epidemiologic Research | 2.5cr | | ID 945B | Applied Practice Experience and Integrative Learning Experience for QM | 1.25cr |
| MPH 101 | Quantitative Methods for Public Health | 0.25cr | | Work on Practicum | | |
| MPH 102 | Health Systems | 1.25cr | | | | |
| MPH 103 | Leadership and Communication | 1.25cr | | | | |
| MPH 104 | Social, Behavioral, and Structural Determinants of Health | 1.25cr | | | | |
| MPH 105 | Public Health Policy and Politics | 1.25cr | | | | |
| ID 945A | Applied Practice Experience and Integrative Learning for QM | 1.25cr | | | | |
| Electives | | 5.0cr | | | | 8.75cr |
| TOTAL CREDITS | 22.5 credits | | 22.5 credits (includes Winter Session) | | | |

END OF PROGRAM = 45 CREDITS

ONLINE ELECTIVE COURSES

Academic year (residential) MPH students may enroll in the following online elective courses on a space-available basis. The courses listed below are part of the Harvard Chan School’s hybrid MPH in Epidemiology (MPH-EPI) and on-line MPH Generalist (MPH-GEN) program. Priority enrollment goes to MPH-EPI and MPH-GEN students.

See p. 3 for the MPH program’s policy on online credits for residential MPH students.

| ONLINE ELECTIVE COURSE OPTIONS | | | |
|---------------------------------------|---|----------------|-----------------|
| Course Number | Title | Credits | Semester |
| Fall | | | |
| EPI 526 | Analysis of Publicly Available Databases for Epidemiologic and Health Services Research | 2.5 | Fall |
| EPI 527 | Design and Conduct of Trials in Preventive Medicine | 2.5 | Fall |
| EPI 528 | Systematic Review and Meta-Analysis | 2.5 | Fall |
| EPI 529 | Applications of Epidemiology | 1.25 | Fall |
| HPM 559 | Introduction to Qualitative Research Methods for Public Health | 2.5 | Fall |
| ID 224 | Survey Research Methods for Public Health | 2.5 | Fall |
| ID 226 | Interventions for Global Health: Concepts and Methods | 2.5 | Fall |
| ID 262 | Emerging Issues in Humanitarian Response | 2.5 | Fall |
| ID 290 | Emergency Response, Disasters, and Public Health | 2.5 | Fall 2 |
| Spring | | | |
| BST 215 | Linear and Longitudinal Regression | 2.5 | Spring |
| EPI 288 | Introduction to Machine Learning and Risk Prediction | 2.5 | Spring |
| EPI 529 | Applications of Epidemiology | 1.25 | Spring |
| EPI 530 | Introduction to Infectious Disease Modeling | 1.25 | Spring 2 |
| HPM 506 | Practical Scientific Methods for Improving Health and Health Care | 2.5 | Spring |
| RDS 202 | Decision Science for Public Health | 2.5 | Spring |
| ID 218 | Financial Transactions and Analysis | 2.5 | Spring 1 |
| ID 226 | Interventions for Global Health: Concepts and Methods | 2.5 | Spring |
| ID 255 | Public Health Leadership: Personal Mastery | 1.25 | Spring 2 |
| ID 257 | An Introduction to Implementation Science | 2.5 | Spring 2 |
| ID 273 | Innovation and Entrepreneurship in Healthcare | 2.5 | Spring 1 |
| ID 276 | Introduction to Nutrition Science | 2.5 | Spring |
| ID 523 | Investigating Outbreaks | 1.25 | Spring 2 |