



HARVARD
T.H. CHAN

SCHOOL OF PUBLIC HEALTH
Powerful ideas for a healthier world



2022-2023

MPH Curriculum Guide

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

45-Credit Program
(On-Campus)

hsph.me/mp-h-curr-guide

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While every effort has been made to ensure that the information contained in this guide is accurate at the time of publication, 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 (published on August 18, 2022) only pertains to students in the above fields of study matriculating in summer or fall 2022. 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.

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HARVARD CHAN ESSENTIAL RESOURCES FOR STUDENTS

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

hsph.me/mph-program-team

677 Huntington Avenue, Kresge G-29
Boston, MA 02115

mph@hsph.harvard.edu

617-432-0090

- **MPH Program Head Signature (for General Petitions and other *forms*):**
Emily Davies, Kresge G-29 or mph@hsph.harvard.edu
- **MPH Public Health Core Contact:** Ying-Ju Lai (ylai@hsph.harvard.edu)
- **ID 100 Waivers:** ID100@hsph.harvard.edu
- **ID 201 Waivers:** Waiver of Core Courses Form (hsph.me/bio-epi-waiver)
- **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

Kresge G-4 Suite

registrar@hsph.harvard.edu

617-432-1032

- **Academic Calendar:** hsph.me/academic-calendar
- **Harvard Course Catalog:** <https://courses.harvard.edu>
- **Student Handbook:** hsph.me/student-handbook
- **Student Knowledge Center:** hsph.me/knowledge-center (information about course enrollment, cross-registration, etc.)

OFFICE OF CAREER & PROFESSIONAL DEVELOPMENT || hsph.me/careers

Kresge G-4 Suite

careers@hsph.harvard.edu

OFFICE OF DIVERSITY & INCLUSION || hsph.me/diversity

Kresge G-4 Suite

odi@hsph.harvard.edu

OFFICE OF FINANCIAL AID || hsph.me/fin-aid-office

Kresge G-4 Suite

financialaid@hsph.harvard.edu

OFFICE OF REGULATORY AFFAIRS & RESEARCH COMPLIANCE || hsph.me/HLC_IRB

- Institutional Review Board (IRB) contact

OFFICE FOR STUDENT AFFAIRS || hsph.me/student-affairs

Kresge G-4 Suite

studentaffairs@hsph.harvard.edu

- **Housing Resources:** hsph.me/housing
- **Student Support Services:** hsph.me/support-services

OFFICE FOR ALUMNI AFFAIRS || hsph.me/alumni-office

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 regardless of their field of study:

- **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 your field 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, regardless of their field of study:

- Can take a maximum of **27.5 credits** in fall and spring semesters
- Limited to a maximum of **3.75 credits from the list of online MPH-EPI courses** (see p. 37) **in any semester** with a maximum of **10 credits from the list of online MPH-EPI courses overall** out of the required 45 credits for the MPH degree
- 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. Any credits taken during Winter Session count towards your spring semester credit totals. To learn more, visit [hsph.me/mph-winter-session](https://hsph.harvard.edu/hsph-me/mph-winter-session)

IMPORTANT ENROLLMENT POLICY FOR INTERNATIONAL STUDENTS

International students who are on a student visa must enroll in a minimum of 15 credits per semester, including a minimum of 11.25 credits of in-person courses per semester. One way for students to determine their in-person course credits is to look at “instruction mode” in the course listings in the Harvard Course Catalog (<https://my.harvard.edu>).

ACADEMIC DEADLINES & HARVARD EMAIL

Students are responsible for knowing and meeting all deadlines and regularly reading their Harvard email. The School’s academic calendar is posted on the Registrar’s Office website ([hsph.me/academic-calendar](https://hsph.harvard.edu/hsph-me/academic-calendar)).

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 School of Public Health may petition to waive or substitute a requirement. If a waiver or substitution is approved, the MPH-45 student must still fulfill the 45 credit minimum requirement in order to graduate. For questions about waiving or substituting a required course, visit [hsph.me/mph-waivers](https://hsph.harvard.edu/hsph-me/mph-waivers) or contact the MPH-OEP Office (mph@hsph.harvard.edu).

If students want to transfer non-degree credits earned at the Harvard Chan School, they must submit a Non-Degree Credit Transfer Form ([hsph.me/registrar-forms](https://hsph.harvard.edu/registrar/forms)). Students may petition to transfer a maximum of 20 non-degree Harvard Chan credits for academic credit towards their 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

For questions about requesting to change your field of study, visit hsph.me/mpf-fos-changes or contact the MPH-OEP Office (mpf@hsph.harvard.edu).

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

For definitions of full-time, part-time, and half-time status, see the Harvard Chan School Student Handbook (hsph.me/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 – mpf@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

The Harvard Chan School uses a semester-based system. For more information, see hsph.me/navigating-your-field-of-study.

ENROLLING IN ONLY ONE SESSION IN A SEMESTER

Academic year (residential) students planning to only enroll in Fall 2 or Spring 2 courses must still enroll in those courses by the Fall/Fall 1 or Spring/Spring 1 add/drop deadlines, respectively, or otherwise risk being withdrawn from degree candidacy. Students who enroll in Winter Session courses are considered enrolled for the spring semester.

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 (hsph.me/registrar-forms).

BILLING & ENROLLMENT

For questions about tuition or student billing, visit the Student Billing website (hsph.me/student-billing) or contact the Registrar's Office (hsph.me/registrar). To discuss your student status and implications for credit load minimums and maximums, contact the Registrar's Office (registrar@hsph.harvard.edu). A course materials fee may apply for some courses. Where applicable, a maximum estimated course materials fee can be found in the Harvard Course Catalog (<https://my.harvard.edu>). Course materials fees are billed following the add/drop period each term and are not included in tuition. For more information on course materials fees, see hsph.me/curriculum-center/for-students.

Academic Year Full-Time Students

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

Academic Year Part-Time Students

Part-time students in the MPH-45 program typically complete the degree over two to three years (maximum of three years). Part-time students should prioritize required courses during their first year.

- 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 (hsph.me/registrar).

MASTER OF PUBLIC HEALTH: PROGRAM OVERVIEW

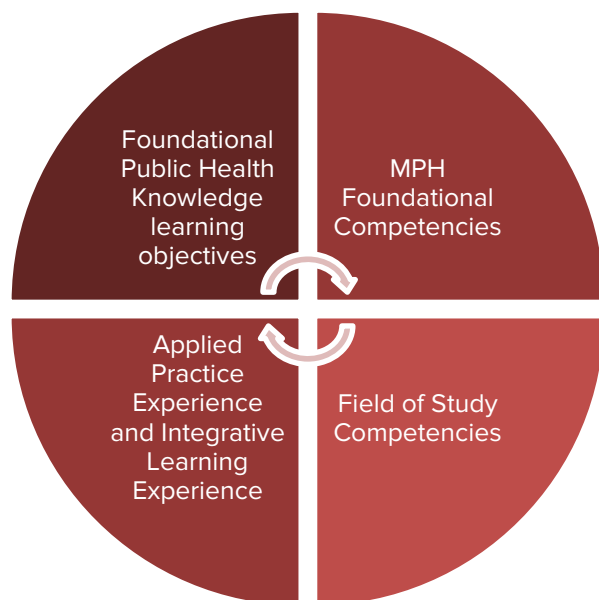
The MPH degree is the most widely recognized professional credential for leadership in public health. The MPH curriculum emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health. The program is organized around the Foundational 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

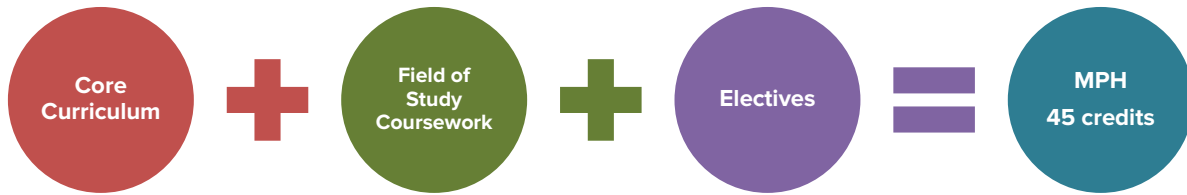
The MPH public health core curriculum is developed in accordance with the Council on Education for Public Health's 12 Foundational Public Health Knowledge learning objectives and 22 MPH Foundational Competencies required of all students receiving an MPH degree at accredited institutions. To learn more, visit hsph.me/mph-competencies.

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.

In general, 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 at least part of the MPH public health core curriculum in the fall semester of their first year to ensure early grounding in the foundational principles of public health. Additional offerings of MPH 102, MPH 103, and MPH 104 outside of the fall semester are available for part-time students (see table on p. 10).

No waivers or substitutions will be allowed for MPH 101–MPH 105; 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. Students should look at their field of study section for more details.

BIostatISTICS AND EPIDEMIOLOGY CORE				
Course Number	Title	Semester	Credits	Fields of Study
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
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.				
BST 201	Introduction to Statistical Methods	Fall	5.0	Required: QM Other FoS: Requires instructor permission
EPI 201 & EPI 202	Introduction to Epidemiology: Methods I	Fall 1	2.5	
	Epidemiologic Methods II: Elements of Epidemiologic Research	Fall 2	2.5	
Summer Start Option (7.5–10 credits)				
To fulfill biostatistics and epidemiology core requirements in summer:				
<ul style="list-style-type: none">QM students take BST 202 (Summer 1), BST 203 (Summer 2), EPI 500 (Summer 1), and EPI 202S (Summer 2)MPH-45 students in other fields of study take BST 202, BST 203, and EPI 500				

*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**, to fulfill their biostatistics and epidemiology core requirements in lieu of ID 201.

MPH PUBLIC HEALTH CORE

Course Number	Title	Semester	Credits	Course Format/Notes
<p>ID 100 is a fully online and asynchronous summer-based course required of all Harvard Chan students. While students will be given access to the ID 100 course materials via Canvas in July, each student will still need to formally enroll in ID 100 via my.harvard during the fall enrollment period.</p>				
ID 100	Foundations for Public Health	Summer into Fall 1	1.0 (Pass/Fail Only)	<p>Asynchronous, self-paced, online course. Takes approx. 10–12 hours total and must be completed by Sunday, August 21, 2022.</p> <p>Must be completed in first year of program.</p>
<p>Most students will complete the MPH 102–MPH 105 core courses in their first fall semester.</p>				
MPH 101	Qualitative Methods for Public Health: A Brief Introduction	Fall 2	0.25 (Pass/Fail Only)	<p>Asynchronous, self-paced, online course. Takes approx. 8–10 hours total.</p> <p>Must be completed in first year of program.</p>
MPH 102	Health Systems	Fall 1	1.25	<p>Asynchronous online course with set deadlines for completion of each module. Synchronous in-person sessions also are required.</p> <p><i>Not required for GH students.</i></p>
MPH 103	Leadership and Communication	Fall 2	1.25	<p>Asynchronous online course with set deadlines for completion of each module. Synchronous in-person sessions also are required.</p> <p><i>Not required for HM students.</i></p>
MPH 104	Social, Behavioral, and Structural Determinants of Health	Fall 1	1.25	<p>Asynchronous online course with set deadlines for completion of each module. Synchronous in-person sessions also are required.</p> <p><i>Not required for HSB students.</i></p>
MPH 105	Public Health Policy and Politics	Fall 2	1.25	<p>Synchronous online course that meets weekly.</p> <p><i>Not required for HP students.</i></p>

Additional offerings of **MPH 102, MPH 103, and MPH 104** outside of the fall semester are available for part-time students (see table below).

ADDITIONAL OFFERINGS – MPH PUBLIC HEALTH CORE				
Course Number	Title	Additional Semester(s) Offered	Credits	Eligibility to Enroll
MPH 102	Health Systems	Summer <i>or</i> Winter Session	1.25	Summer: Continuing part-time MPH-45 students* Winter Session: Any part-time MPH-45 students
MPH 103	Leadership and Communication	Winter Session	1.25	Any part-time MPH-45 students
MPH 104	Social, Behavioral, and Structural Determinants of Health	Summer <i>or</i> Winter Session	1.25	Summer: Continuing part-time MPH-45 students* Winter Session: Any part-time MPH-45 students

*Note: continuing part-time status means you began your MPH degree program prior to the 2022–2023 academic year.

APPLIED PRACTICE 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)**, which are components of a practice course or seminar course for each field of study. 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.

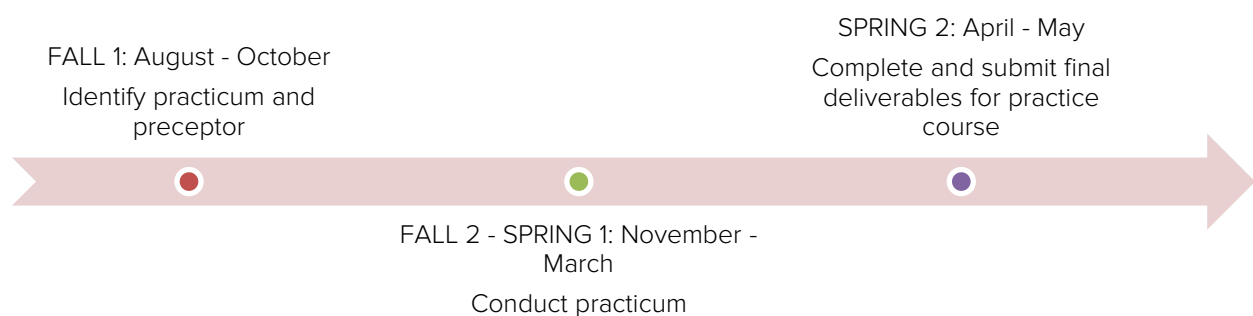
APPLIED PRACTICE EXPERIENCE

All MPH-45 students complete a minimum of 120 hours toward their Applied Practice (AP) Experience, referred to as a “practicum” or field placement. The practicum is generally completed by working on a project under the guidance of a preceptor at an outside organization. The objectives of the practicum are to help students integrate, synthesize, and apply the knowledge and competencies from program coursework to a real-world public health problem or issue; explore a substantive public health topic that is of interest to the student; and enhance the skills needed to function in a professional public health setting.

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) 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 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 the academic year to discuss their interests.



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.

Learning Agreement

Prior to starting a practicum, students must complete a Learning Agreement, which outlines the scope, deliverables, work plan, 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 list of competencies will include three foundational competencies and two field of study-specific competencies.

Resources for Identifying a Practicum

Practica and abstracts from previous years: [hsph.me/mph-prior-practice](https://hsph.harvard.edu/practice)
CareerConnect: <https://hsph-harvard-csm.symplicity.com/students>

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) includes self-assessment, critical reflection on students' professional growth, and demonstration of attainment of the MPH Foundational Competencies and specific field of study competencies. These competencies, listed online ([hsph.me/mph-competencies](https://hsph.harvard.edu/competencies)), are achieved through successful coursework, field practice, extracurricular activities, and other learning opportunities that students identify independently.

All students complete a baseline and endpoint survey to self-assess their MPH competencies.

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.

FOR MORE DETAILS

Field Education and Practice website: hsph.me/field-practice
MPH Field Practice email: mph-practice@hsph.harvard.edu

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.

A section of the MPH-OEP Office website (hsph.me/mph-online-curriculum-guide) is designed to supplement the MPH Curriculum Guide and provides students with additional details on **required**, **recommended**, and/or **suggested elective courses** for some fields of study. Students are encouraged to carefully review the field of study requirements and consult with their faculty advisor to choose elective courses best suited to their needs.

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. 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. For more resources on planning your program, visit hsph.me/navigating-your-field-of-study.

INTERDISCIPLINARY CONCENTRATIONS

To learn more, visit hsph.me/interdisciplinary-concentrations.

TRACKING YOUR DEGREE PROGRESS

The MPH-OEP Office offers degree audit sheets for each field of study (hsph.me/mph-degree-tracking).

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** is intended to prepare 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

- Evaluate and apply qualitative and quantitative research methods for analyzing a wide variety of global health challenges and settings
- Design and evaluate global health interventions under different circumstances with different objectives, including their relationship with health system reform
- Develop public health policies to reflect technical, normative, and political considerations
- Design communication and implementation strategies, including leadership capacities for influencing public health action
- Describe various ethical perspectives for understanding the values and consequences of public health policies and decisions; and analyze the ethical dimensions of public health problems, policies, and systems according to these 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.			
Fall (12.5 credits)			
Note: GH students are exempt from MPH 102.			
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)			
Fall (8.75 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
GHP 945A	Applied Practice & Integrative Learning Experience for GH	1.25	Fall 1
Spring (1.25 credits)			
GHP 945B	Applied Practice & Integrative Learning Experience for GH	1.25	Spring 2
Additional GH Requirements (7.5 credits)			
Ethics in Global Health Practice: Choose <u>one</u> of the 3 approved courses below.			
ID 250	Ethical Basis of the Practice of Public Health	2.5	Fall 1
GHP 293	Individual and Social Responsibility for Health		Fall 2
GHP 265	Ethics of Global Health Research		Spring 2
GHP Coursework: Complete 5 credits offered by the Dept. of Global Health and Population.			
Varies	Students must complete a <i>minimum of 5 credits</i> of GHP coursework beyond the field of study requirements. Students are encouraged to develop specific strengths by focusing some of their GHP coursework via <i>interdisciplinary concentrations</i> (e.g., Humanitarian Studies, Nutrition and Global Health, and others), or a sequence of courses in a particular theme such as Health Systems or Population and Family Health. For the list of approved course options, visit hsph.me/ghp-current-students or contact the GHP Education Office (aconary@hsph.harvard.edu).	5.0	Fall &/or Spring
ELECTIVES (15 credits)			
To view a sample list of cross-registration electives, visit hsph.me/mph-cross-reg			

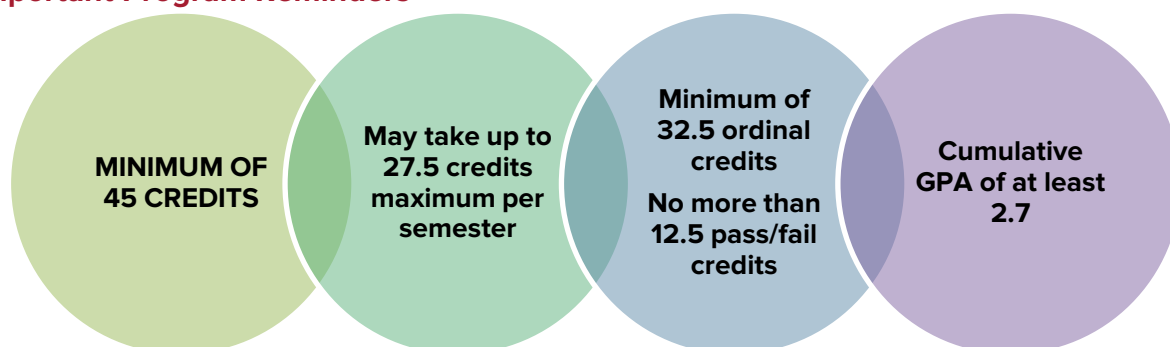
TOTAL 45 CREDITS

Notes for Students

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. To learn more, visit hsph.me/mpw-winter-session.

Important Program Reminders



Sample Curriculum for MPH-45 in GH (45 credits taken over one academic year)

FALL			WINTER	SPRING		
ID 100	Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i>	1.0cr	GHP Travel Course (possibly) (Practicum)	Varies	Ethics in Global Health Practice Requirement	2.5cr
ID 201	Core Principles of Biostatistics and Epidemiology for Public Health Practice	7.5cr		Varies	Additional GHP Coursework Requirement	5.0cr
MPH 101	Qualitative Methods for Public Health	0.25cr		GHP 945B	Applied Practice and Integrative Learning Experience for GH	1.25cr
MPH 103	Leadership and Communication	1.25cr				
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				
GHP 557	Fundamentals of Global Health	5.0cr				
GHP 945A	Applied Practice and Integrative Learning Experience for GH	1.25cr				
Electives		2.5cr		Electives		12.5cr
TOTAL CREDITS	23.75 credits		21.25 credits (includes Winter Session)			

END OF PROGRAM = 45 credits

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

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

MPH-45 in Health Management



MPH-45 in Health Management

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.			
Fall (12.5 credits)			
Note: HM students are exempt from MPH 103.			
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 102	Health Systems	1.25	Fall 1
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)			
Fall (8.75 credits)			
Finance and Accounting: Choose <u>one</u> of the approved courses below.			
HPM 219	Financial Transactions and Analysis	2.5	Fall 1
HPM 220	Financial Management and Control		Fall 2
Innovation: Choose <u>one</u> 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
HPM 539	Health Care Organizations and Organizational Behavior	2.5	Fall 2
HPM 946A	Applied Practice & Integrative Learning Experience for HM	1.25	Fall
Spring (1.25 credits)			
HPM 946B	Applied Practice & Integrative Learning Experience for HM	1.25	Spring
Additional HM Requirements (5 credits)			
Strategy: Choose <u>one</u> of the approved courses below.			
DRPH 270	Strategic Management in Global Settings	2.5	Fall 1
HPM 231	Healthcare Organizations and Strategy		Spring 2
Quality Improvement: Choose <u>one</u> 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
ELECTIVES (17.5 credits)			
To view a list of electives that be may of interest, visit hsph.me/mpH-field-of-study-health-management			

TOTAL 45 CREDITS

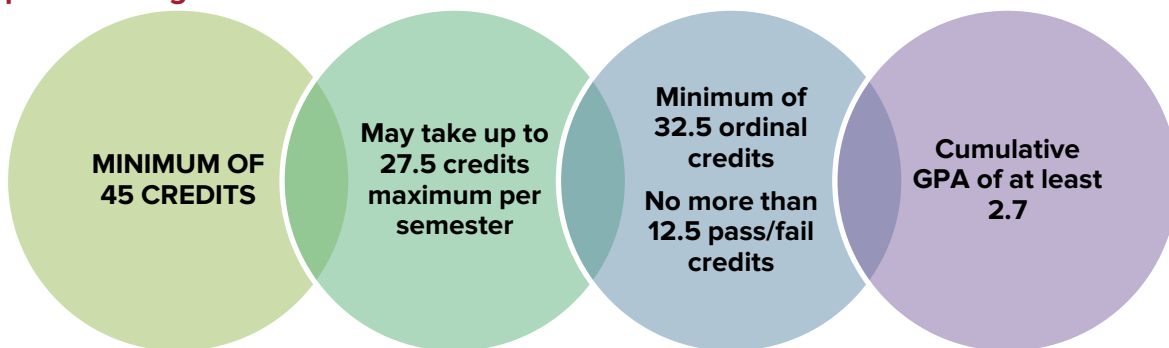
Notes for Students

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 MPH website (hsph.me/mpw-oed) and the HPM – Resources for New MPH Students website (hsph.me/hpm-student-resources).

For information about waiving or substituting an HM field of study requirement, visit hsph.me/hpm-waiver-subs.

Important Program Reminders



Sample Curriculum for MPH-45 in HM
(45 credits taken over one academic year)

FALL			WINTER	SPRING		
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	Quality Improvement Requirement	2.5cr
MPH 101	Qualitative Methods for Public Health	0.25cr		HPM 946B	Applied Practice and Integrative Learning Experience for HM	1.25cr
MPH 102	Health Systems	1.25cr		Work on Practicum		
MPH 104	Social, Behavioral, and Structural Determinants of Health	1.25cr				
MPH 105	Public Health Policy and Politics	1.25cr				
Varies	Finance and Accounting Requirement	2.5cr				
Varies	Innovation Requirement	2.5cr				
HPM 539	Health Care Organizations and Organizational Behavior	2.5cr				
HPM 946A	Applied Practice and Integrative Learning Experience for HM	1.25cr				
Electives		2.5cr		Electives		15cr
TOTAL CREDITS	23.75 credits		21.25 credits (includes Winter Session)			
END OF PROGRAM = 45 credits						

FIELD OF STUDY: HEALTH POLICY

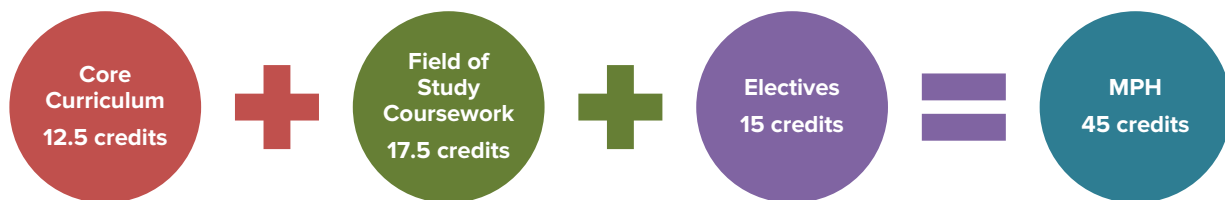
CURRICULUM OVERVIEW

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

- Apply economic concepts to analyze and critique health care and public health policies
- Recommend a course of action to address a health policy challenge, including assessing alternative approaches within a specific political, economic, and social context
- Critically evaluate and draw policy implications from health decision science studies or health program impact evaluations
- Design an effective political strategy to influence a health policy outcome
- 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 and additional offerings, see pp. 7–10.			
Fall (12.5 credits)			
<i>Note: HP students are exempt from MPH 105.</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 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 (17.5 credits)			
Fall (8.75 credits)			
HPM 206	Economic Analysis	5.0	Fall
HPM 210	United States Health Policy	2.5	Fall 1
HPM 945A	Applied Practice & Integrative Learning Experience for HP	1.25	Fall
Spring (3.75 credits)			
HPM 247	Political Analysis and Strategy for U.S. Health Policy	2.5	Spring 1
HPM 945B	Applied Practice & Integrative Learning Experience for HP	1.25	Spring 2
Additional HP Requirements (5 credits)			
HPM Health Policy Coursework: Take an <i>additional 2.5 credits</i> of HPM health policy coursework beyond the field of study requirements. Some possible course options are listed below.			
HPM 213	Public Health Law	2.5	Spring 2
HPM 505	Health Care Delivery Reform in the US		Spring 1
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 2
HPM 526	Long-Term Care Policy in the U.S.		Fall 2
HPM 545	Economics of Health Care: Public vs. Market Resolutions		Spring 2
HPM 561	Loneliness and Public Health		Winter
ID 240	Principles of Injury Control		Spring 1

Analytical Methods: Take a *minimum of 2.5 credits* from the list of approved options below. (Please note that some courses have limited enrollment and students in other fields of study/degree programs may have priority enrollment in courses offered by their academic department/field of study.)

	<i>Most common choices for HP students to fulfill the analytical methods requirement:</i>		
RDS 280	Decision Analysis for Health and Medical Practices	2.5	Fall 2
HPM 543	Quantitative Methods for Policy Evaluation	2.5	Spring 2
	<i>Other approved courses:</i>		
Varies	Any RDS course (examples: RDS 202, 282, 284, 285)	2.5–5.0	Varies
Varies	Any Harvard Chan intermediate or advanced BST or EPI course (beyond ID 201, BST 201, and EPI 201/202)	2.5–5.0	Varies
HPM 285	Applied Survey Research for HPM	2.5	Spring 2
HPM 559	Intro. to Qualitative Research Methods for Public Health	2.5	Fall (ONLINE)
GHP 504	Introduction to Qualitative Research for Global Health	2.5	Spring 1
GHP 525	Econometrics for Health Policy	5.0	Fall
GHP 537	Field Methods in Humanitarian Crises	2.5	Spring 1
SBS 281	Principles of Social and Behavioral Research	2.5	Fall 2
SBS 501	Community-based Participatory Research	2.5	Spring 1

ELECTIVES (15 credits)

To view a list of electives that may be of interest, visit hsph.me/mph-field-of-study-health-policy

TOTAL 45 CREDITS

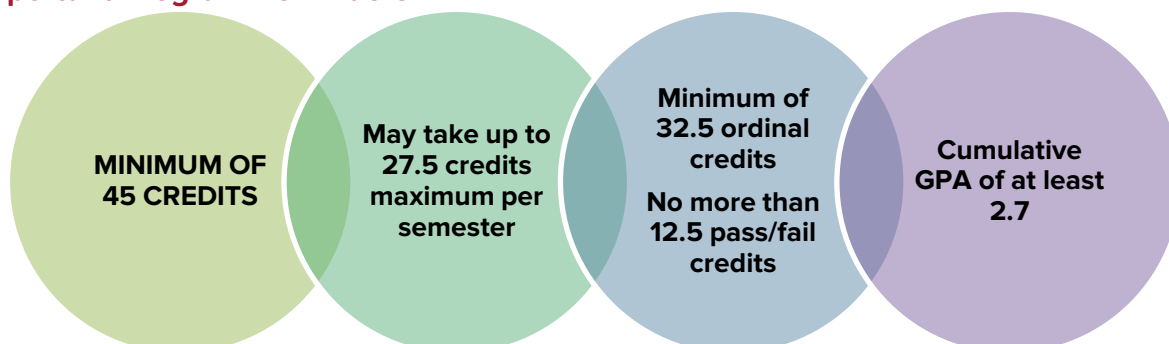
Notes for Students

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/mph-winter-session.

For more student resources, visit the MPH website (hsph.me/mph-oed) and the HPM – Resources for New MPH Students website (hsph.me/hpm-student-resources).

For information about waiving or substituting an HP field of study requirement, visit hsph.me/hpm-waiver-sub.

Important Program Reminders



Sample Curriculum for MPH-45 in HP
(45 credits taken over one academic year)

FALL			WINTER	SPRING			END OF PROGRAM = 45 credits
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 HPM Health Policy Coursework Requirement	2.5cr	
MPH 101	Qualitative Methods for Public Health	0.25cr		HPM 945B	Applied Practice and Integrative Learning Experience for HP	1.25cr	
MPH 102	Health Systems	1.25cr		Work on Practicum			
MPH 103	Leadership and Communication	1.25cr					
MPH 104	Social, Behavioral, and Structural Determinants of Health	1.25cr					
HPM 206	Economic Analysis	5.0cr					
HPM 210	United States Health Policy	2.5cr					
Varies	Analytical Methods Requirement	2.5cr					
HPM 945A	Applied Practice and Integrative Learning Experience for HP	1.25cr					
Electives				Electives		15cr	
TOTAL CREDITS	23.75 credits		21.25 credits (Includes Winter Session)				

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 (including racism), and promoting health and social 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. All 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, and complete additional required coursework 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, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

- Evaluate behavioral and social theories and conceptual paradigms in the design of basic and applied inquiries in social and behavioral sciences
- Formulate social and behavioral change interventions based on these theories that are appropriate and responsive to the social and cultural context
- Critically appraise principles of research, evaluation, and public health monitoring/surveillance methodology, including quantitative and qualitative methods, to address research hypotheses using a range of research designs
- Describe and apply rigorous, theory-based approaches to research translation for practice, policy, and public health settings
- Recognize the principles of social inclusion, diversity, social justice, and ethics 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.			
Fall (12.5 credits)			
<i>Note: HSB students are exempt from MPH 104.</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 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.			
Fall (6.25 credits)			
SBS 201	Society and Health	2.5	Fall 1
SBS 281	Principles of Social and Behavioral Research	2.5	Fall 2
SBS 945A	Applied Practice & Integrative Learning Experience for HSB	1.25	Fall 1
Spring (6.25 credits)			
Theory-Guided Research Translation: Choose <u>one</u> 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 503	Explaining Health Behavior: Insights from Behavioral Econ.		Spring 2
SBS 508	Successes and Challenges in Health Behavior Change	2.5	Spring 2
SBS 945B	Applied Practice & Integrative Learning Experience for HSB	1.25	Spring 2
Additional HSB Requirements (5 credits)			
SBS Coursework: Complete 5 credits offered by the Dept. of Social and Behavioral Sciences.			
Varies	Students must complete a <i>minimum of 5 credits</i> of SBS coursework beyond the field of study requirements. To view the full list of approved SBS course offerings, visit hsph.me/sbs-courses-by-topic <i>Note:</i> An independent study (e.g., SBS 300) does not count towards this requirement.	5.0	Fall &/or Spring
ELECTIVES (15 credits)			
To view a sample list of cross-registration electives, visit hsph.me/mpg-cross-reg			

TOTAL 45 CREDITS

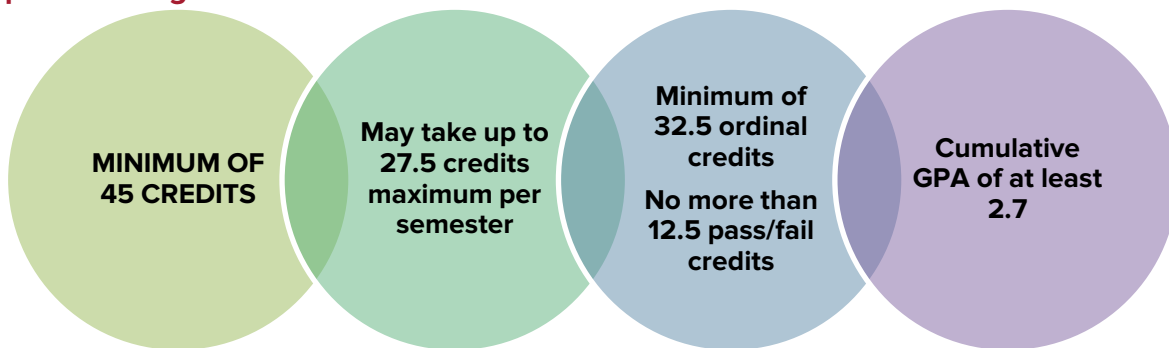
Notes for Students

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.

Maternal and Child Health Interdisciplinary Concentration

Students who received any funding through the Maternal and Child Health (MCH) training grant **must** meet with Destiny Davis (ddavis@hsph.harvard.edu), MCH Program Coordinator, at the beginning of the fall semester to ensure they meet the training grant requirements.

Important Program Reminders



Sample Curriculum for MPH-45 in HSB
(45 credits taken over one academic year)

FALL			WINTER	SPRING		
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 945B	Applied Practice and Integrative Learning 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	2.5cr				
SBS 281	Principles of Social and Behavioral Research	2.5cr				
SBS 945A	Applied Practice and Integrative Learning Experience for HSB	1.25cr				
Electives		3.75cr		Electives		11.25cr
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

- Acquire an accurate and relevant history, including occupational history related to workplace or environmental exposures; and begin formulation of the differential diagnosis
- Identify potential population health effects from exposure to chemical, physical, and biological hazards, and describe individual factors that impact susceptibility to adverse health effects from environmental exposures
- Assess environmental and occupational health issues using core principles of industrial hygiene, ergonomics, occupational safety, and risk/hazard control and communication (e.g., recognition of regulatory standards and guidelines)
- 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
- Apply the principles of toxicology, epidemiology, and risk analysis to public policy and 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 and additional offerings, see pp. 7–10.			
Fall (13.75 credits)			
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 (25–28.75 credits)			
Students must take OEH field of study requirements for an ordinal grade unless otherwise noted below.			
Fall (7.5–11.25 credits)			
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
EH 510	Fundamentals of Human Environmental Exposure Assessment	2.5	Fall 2
HPM 548	Responsible Conduct of Research*	1.25 or audited	Fall 1 or Spring 1
Spring (17.5 credits)			
EH 231	Occupational Health Policy and Administration	2.5	Spring
EH 232	Introduction to Occupational and Environmental Medicine	2.5	Spring
EH 236	Epidemiology of Environmental and Occupational Health Regulations	5.0	Spring
ID 263	Practice of Occupational Health	5.0	Spring
EH 945S	Applied Practice & Integrative Learning Experience for OEH	2.5 (P/F only)	Spring
ELECTIVES (2.5–6.25 credits)			
To view a sample list of cross-registration electives, visit hsph.me/mpH-cross-reg			
TOTAL 45 CREDITS			

Notes for Students

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.

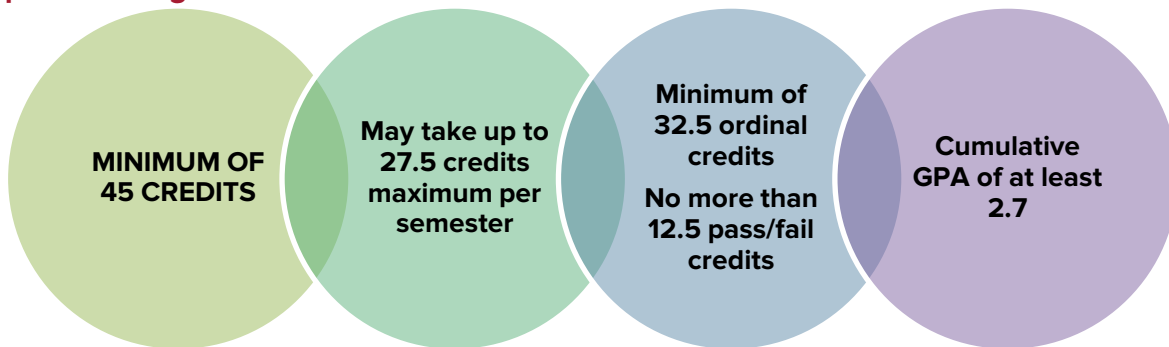
Occupational and Environmental Medicine Residency (OEMR)

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)
(45 credits taken over one academic year)

FALL			WINTER	SPRING		
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 and Integrative Learning 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				
EH 510	Fundamentals of Human Environmental Exposure Assessment	2.5cr				
HPM 548	Responsible Conduct of Research <i>(optional)</i>	1.25cr or audited				
Electives		2.5cr		Electives		3.75cr
TOTAL CREDITS	23.75 credits		21.25 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

- Evaluate the effectiveness of public health and clinical interventions using epidemiologic and statistical methods, including crude, stratified, and standardized analyses, and regression methods
- Critically evaluate the results of observational and experimental research studies relevant to clinical and/or public health research and practice
- Calculate and interpret measures of health and disease status encountered in epidemiologic research, health services research, comparative effectiveness research, and public health practice
- Design and conduct valid and efficient epidemiologic investigations, including cohort and case-control studies, relevant to public health and clinical applications
- Apply appropriate biostatistical methods using software packages (e.g., STATA, SAS, or R) to perform and interpret crude and adjusted analyses of data

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.			
Fall (16.25 credits)			
ID 100	Foundations for Public Health (Pre-matriculation coursework begins online in summer)	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)			
Regression (5 credits)			
Choose one of the approved courses below. QM students with appropriate prior statistical training may take regression in fall instead of spring. Other options may be approved by the field of study leader.			
BST 210 BST 213	Applied Regression Analysis Applied Regression for Clinical Research	5.0	Fall or Spring Fall
Upper-Level QM Coursework (5 credits)			
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 (2.5 credits)			
ID 945A	Applied Practice & Integrative Learning Experience for QM	1.25	Fall
ID 945B	Applied Practice & Integrative Learning Experience for QM	1.25	Spring
Additional Practice Course or Field of Study-Approved Research Project (2.5 credits)			
Choose one course from the list of approved options below. Other options may be approved by the field of study leader.			
BST 209 BST 212 BST 214 BST 217 BST 225 BST 239 EPI 233 EPI 501	Machine Learning: Collaborative Data Sci. in Healthcare Survey Research Methods in Community Health Principles of Clinical Trials Statistical and QM for Pharmaceutical Regulatory Science Intro. to Systematic Reviews and Meta-Analysis Methods Health Survey Samples Research Synthesis and Meta-Analysis Dynamics of Infectious Diseases	2.5	Summer 1 Spring Spring 1 Spring 2 Summer 2 Spring 2 Spring Spring 1

EPI 528	Systematic Review and Meta-Analysis	Fall (ONLINE)
ID 240	Principles of Injury Control	Spring 1
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)

To view a sample list of cross-registration electives, visit hsph.me/mph-cross-reg

TOTAL 45 CREDITS

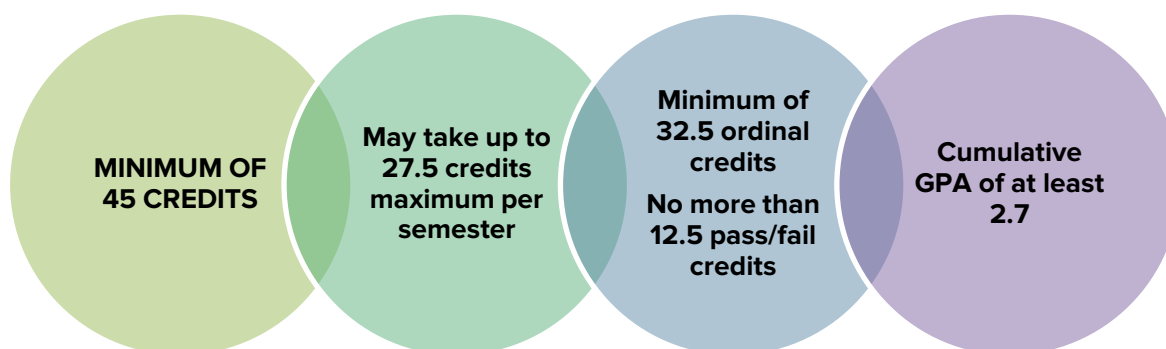
Notes for Students

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/mph-winter-session.

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 or BST 208, 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
(45 credits taken over one academic year)

FALL			WINTER	SPRING			END OF PROGRAM = 45 CREDITS
ID 100	Foundations for Public Health <i>(Pre-matriculation coursework begins online in summer)</i>	1.0cr	Work on Practicum	Varies	Regression Requirement	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	Epidemiologic Methods II: Elements of Epidemiologic Research	2.5cr		ID 945B	Applied Practice and Integrative Learning Experience for QM	1.25cr	
MPH 101	Qualitative Methods for Public Health	0.25		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 and Integrative Learning for QM	1.25cr					
Electives		5.0cr		Electives		8.75cr	
TOTAL CREDITS	22.5 credits		22.5 credits (includes Winter Session)				

ONLINE MPH-EPI ELECTIVE COURSES

Academic year (residential) MPH students may enroll in the following online MPH-EPI 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) program.

Priority enrollment goes to MPH-EPI students and to students in the fully online MPH Generalist (MPH-GEN) program. Residential MPH students will only be able to enroll in these courses if there is available space. (Also, some courses may not be open to residential students; see "class notes" in the course listings in the [Harvard Course Catalog](#).)

For the MPH program's policy on credit limits for residential MPH students interested in enrolling in the online MPH-EPI elective courses listed below, please see p. 3.

ONLINE MPH-EPI ELECTIVE COURSE OPTIONS			
Course Number	Title	Credits	Semester
Fall Options			
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
Spring Options			
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 1
HPM 506	Practical Scientific Methods for Improving Health and Health Care	2.5	Spring
RDS 202	Decision Science for Public Health	2.5	Spring