



Master of Public Health 45-Credit Program

2021-2022 MPH CURRICULUM GUIDE

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Every effort is made to ensure the information contained in this guide is accurate at the time of publication. However, the curriculum, including degree requirements, courses, faculty, and program policies are subject to modification as deemed necessary by the Harvard T.H. Chan School of Public Health to provide students with the most meaningful educational experience and to remain current with professional standards and guidelines. This version of the MPH-45 Curriculum Guide only pertains to students in the above fields of study matriculating in summer or fall 2021. 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 PROGRAM LEADERSHIP AND ADMINISTRATION – OFFICE OF EDUCATIONAL PROGRAMS		
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Epidemiology (EPI) (Online/On-Campus)	Heather Baer hbaer@bwh.harvard.edu	Stephanie Lemoine mphepi@hsph.harvard.edu
Generalist (GEN) (Online)	Bonnie Blanchfield bblanchfield@hsph.harvard.edu	Sarah Stillman stillman@hsph.harvard.edu
Global Health (GH)	Ana Langer alanger@hsph.harvard.edu	Allison Conary aconary@hsph.harvard.edu Barbara Heil bheil@hsph.harvard.edu
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Health Policy (HP)	David Hemenway hemenway@hsph.harvard.edu	Nicole Pires npires@hsph.harvard.edu
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Occupational & Environmental Health (OEH)	Stefanos Kales skales@hsph.harvard.edu	Barbara Zuckerman bzuckerm@hsph.harvard.edu
Quantitative Methods (QM)	Murray Mittleman mmittlem@hsph.harvard.edu	Emily Davies and TBD mph@hsph.harvard.edu

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

- **Department Program Head Signature (for General Petitions and other forms):** Emily Davies, Kresge G-29 or mph@hsph.harvard.edu
- **MPH Public Health Core Contact:** Sarah Stillman, stillman@hsph.harvard.edu
- **ID 100 Waivers:** Sarah Stillman, stillman@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://my.harvard.edu>
- **Student Handbook:** hsph.me/student-handbook
- **Student Knowledge Center:** hsph.me/knowledge-center (information about course enrollment, cross-registration, etc.)

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

90 Smith Street, Fourth Floor

alumni@hsph.harvard.edu

OFFICE OF CAREER AND PROFESSIONAL DEVELOPMENT || hsph.me/career-services

Kresge G-4 Suite

careers@hsph.harvard.edu

OFFICE OF DIVERSITY AND 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 AND RESEARCH COMPLIANCE || hsph.me/orarc

- 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

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** (independent studies are only p/f)
- 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 online credits of MPH-EPI courses** (see p. 38) **in any semester** with a maximum of **10 online credits of MPH-EPI courses overall** out of the required 45 credits for the MPH degree
 - The required MPH core courses of ID 100 and MPH 101 – MPH 105 (6.25 credits total) do NOT count towards the MPH program's online 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. To learn more, visit 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. In determining your in-person course credits, please note that the required MPH core courses of ID 100 and MPH 101 – MPH 105 (6.25 credits total) are taught online and thus do not count towards the 11.25 minimum number of in-person course credits that you need to enroll in per semester. Additionally, please note that although ID 201 lectures are taught online, ID 201 (7.5 credits) is considered an in-person course because it has a required in-person lab component. One way for students to determine their in-person course credits is to look at “instruction mode” for courses 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).

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/hsph/me/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 of the Student Billing website.

FIELD OF STUDY CHANGES

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

THE 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](https://hsph.harvard.edu/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 deadline, 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 do not wish 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](https://hsph.harvard.edu/hsph/me/registrar-forms)).

BILLING & ENROLLMENT

Course enrollment and pre-paying your tuition bill are closely connected at the Harvard Chan School. For questions about tuition or student billing, visit the Student Billing website ([hsph.me/student-billing](https://hsph.harvard.edu/student-billing)) or contact the Registrar's Office ([hsph.me/registrar](https://hsph.harvard.edu/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 materials fee can be found for courses 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](https://hsph.harvard.edu/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 2-3 years (maximum of 3 years).

International Students

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](https://hsph.harvard.edu/registrar)).

MASTER OF PUBLIC HEALTH: PROGRAM OVERVIEW

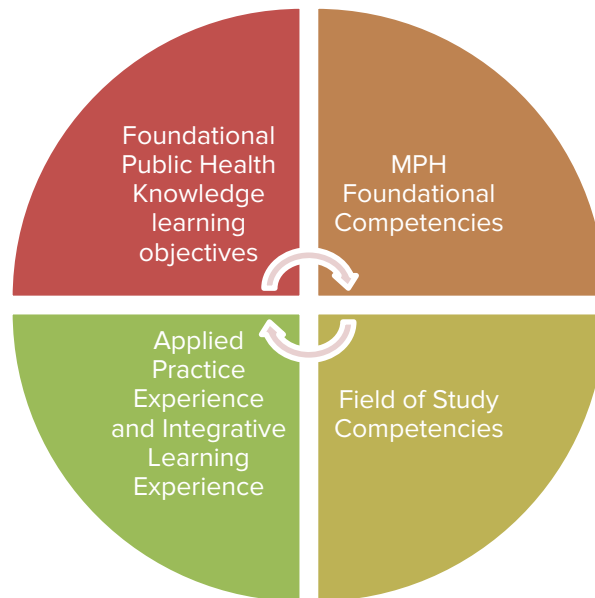
The MPH degree is the most widely recognized professional credential for leadership in public health. The MPH curriculum emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health. The program is organized around the Foundational 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 a school-wide, pre-matriculation course, ID 100: *Foundations for Public Health*; the biostatistics and epidemiology core; and five courses (MPH 101 – MPH 105) in other foundational public health areas. ID 100 and MPH 101 – MPH 105 are offered in an online format only, with optional synchronous in-person and online opportunities for engagement with the course material. ID 201 lectures are taught online, and the course has a required in-person lab component and other optional in-person sessions.

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. As described on p. 11, additional offerings of MPH 101, MPH 102, and MPH 104 outside of the fall semester are available for part-time students and for students in some fields of study. To learn more about the MPH public health core curriculum, visit hsph.me/mph-core.

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	Notes
<p><i>Pre-matriculation coursework for ID 100 begins online in summer. In order to receive credit for this course, students must enroll themselves in ID 100 via my.harvard prior to the Fall/Fall 1 add/drop deadline. For more information, see next page.</i></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.</p> <p>Must be completed in first year of program.</p>
<p><i>Most students will complete the MPH 102 – MPH 105 core courses in their first fall semester. Additional offerings outside of the fall semester are available for part-time students and for students in some fields of study. For more information, see p. 11.</i></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.</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.</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.</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>

ID 100, Foundations for Public Health

All MPH students are required to complete a school-wide, pre-matriculation course, ID 100: *Foundations for Public Health*, in their first year of the program. This online, asynchronous course consists of four modules and takes approximately 10-12 hours to complete.

Students will be automatically given access to the ID 100 course materials via [Canvas](#) in July and can complete the course at their own pace. Since this course is considered a pre-matriculation requirement, students are strongly encouraged to complete all four modules prior to Fall Orientation but can take until the end of Fall 1 if needed. In order to receive credit for this course, students must enroll themselves in ID 100 via [my.harvard](#) prior to the Fall/Fall 1 add/drop deadline. The course instructor, Professor Sue Goldie, will hold an optional synchronous Zoom session during Fall Orientation which will be recorded for students who are unable to attend live.

MPH 101 – MPH 105

All MPH students are required to complete **MPH 101** in their first year of the program. This online, asynchronous course is expected to take approximately 8-10 hours to complete. Students can complete the course at their own pace during Fall 2 but must finish the course by the end of the Fall 2 term (or summer, if applicable). **MPH 102, MPH 103, and MPH 104** are online, asynchronous courses with set deadlines for the completion of each module. Optional opportunities for synchronous engagement with the course material will be offered both in-person and online. **MPH 105** is an online, synchronous course that meets weekly. Live attendance is strongly encouraged; however, MPH 105 class sessions will be recorded for students who are unable to attend the course synchronously.

In general, it is highly recommended that students complete the MPH 102 – MPH 105 core courses in their first fall semester. Students who are unable to do so should prioritize MPH 103 and MPH 105 (if required). 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.

Additional offerings of MPH 101, MPH 102, and MPH 104 outside of the fall semester are available for part-time students and for students in some fields of study (see table below). Students must [submit a petition](#) to request permission to enroll in MPH core courses offered outside of the fall semester via [my.harvard](#) during the applicable course enrollment period. Sarah Stillman, Office of Education Course Manager, will approve the petition.

ADDITIONAL OFFERINGS – MPH PUBLIC HEALTH CORE				
Course Number	Title	Additional Semester(s) Offered	Credits	Eligibility to Enroll
MPH 101	Qualitative Methods for Public Health: A Brief Introduction	Summer	0.25 (Pass/Fail Only)	QM
MPH 102	Health Systems	Summer 1 or Winter Session	1.25	Summer 1: QM and continuing part-time MPH-45 students* Winter Session: HM, QM, and part-time MPH-45 students
MPH 104	Social, Behavioral, and Structural Determinants of Health	Summer 1 or Winter Session	1.25	Summer 1: QM and continuing part-time MPH-45 students* Winter Session: HM, QM, and part-time MPH-45 students

*Note: continuing part-time status means you began your MPH degree program prior to the 2021-2022 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.

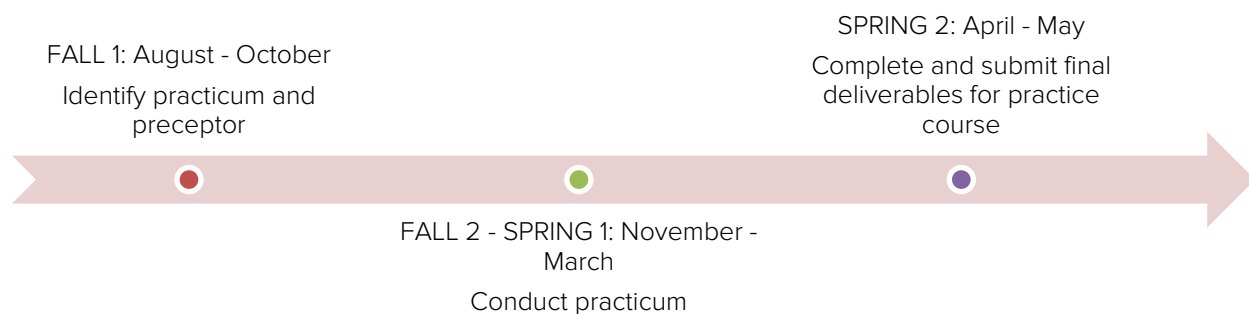
APPLIED PRACTICE EXPERIENCE

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/mpg-prior-practice](https://hsph.harvard.edu/hsph-me/mpg-prior-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/mpg-competencies](https://hsph.harvard.edu/hsph-me/mpg-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](https://hsph.harvard.edu/hsph-me/field-practice)

MPH Field Practice email: mpg-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/mpg-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

Assignment of academic advisors is guided by 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 particular 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/mpg-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 have some 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 for part-time students*, see pp. 7-11.			
Fall (12.5 credits)			
<i>Note: 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)			
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 one of the 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 an additional 5 credits of GHP coursework beyond the field of study requirements. Students are encouraged to develop specific strengths by focusing some of their GHP coursework either via <i>interdisciplinary concentrations</i> (e.g., Humanitarian Studies; Nutrition and Global Health, and others), or via 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			

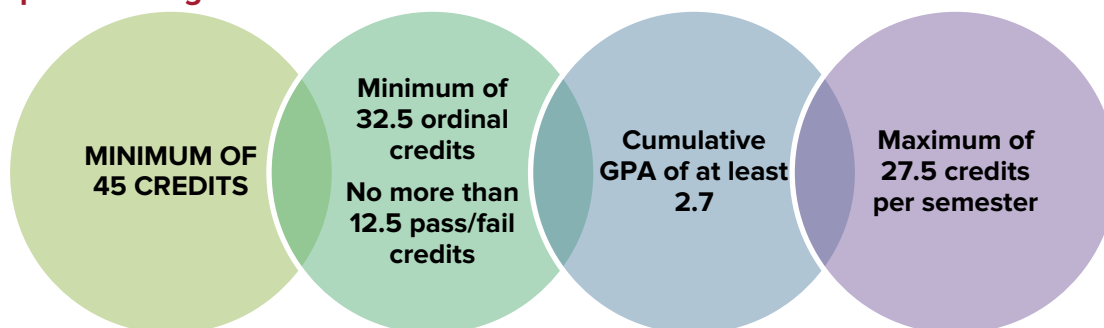
TOTAL 45 CREDITS

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/mph-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	GH 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		Work on Practicum		
MPH 104	Social, Behavioral, and Structural Determinants of Health	1.25cr				
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				
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, strategic acumen, innovative thinking, and change leadership. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience. Students have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

- Analyze and explain financial and accounting information
- Evaluate budgets and make sound short- and long-term investment decisions within a health care environment
- Synthesize implications and insights and draw conclusions regarding economic, demographic, ethno-cultural, political, legal, and regulatory trends
- Integrate deep understanding of community and stakeholder needs, recognize resulting business opportunities and develop creative solutions and operational plans to address those unmet needs
- Critically evaluate organizational structures, culture, processes, and performance to initiate and sustain meaningful organizational change

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 and additional offerings*, see pp. 7-11.			
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 or Winter*
MPH 103	Leadership and Communication	1.25	Fall 2
MPH 104	Social, Behavioral, and Structural Determinants of Health	1.25	Fall 1 or Winter*
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 one 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 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
HPM 539	Health Care Organizations and Organizational Behavior	2.5	Fall 1 or 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 (5.0 credits)			
Strategy: Choose one 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 one of the approved courses below.			
HPM 268	Methods and Tools for Quality Improvement	2.5	Fall 2
HPM 516	Health Care Quality and Safety		Spring 2
ELECTIVES (16.25 credits)			
To view a list of electives that be may of interest, visit hsph.me/mph-field-of-study-health-management			

TOTAL 45 CREDITS

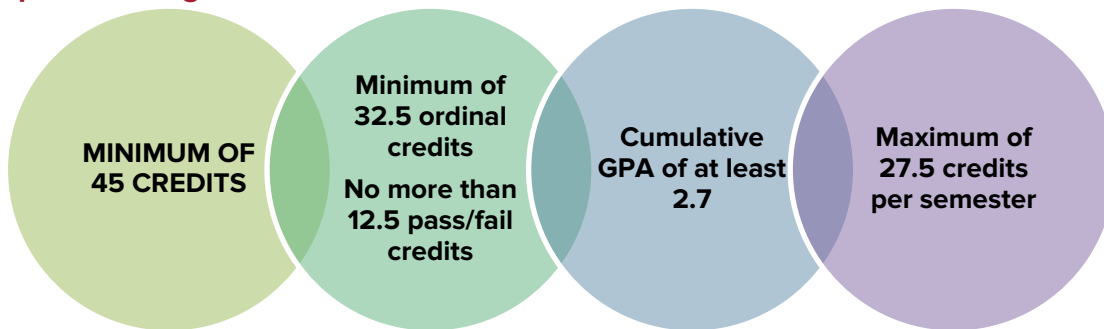
Notes for Students

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 HM student resources, visit the MPH-OEP Office's MPH Students webpage (hsph.me/mpw-oed) and the Department of Health Policy and Management's Resources for New MPH Students webpage (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 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				
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				16.25cr		
TOTAL CREDITS	22.5 credits		22.5 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 have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering.

COMPETENCIES

- Assess how the structure, organization, and financing of the U.S. health care system affect system performance in terms of effectiveness, efficiency, and equity of health care delivery and health
- Evaluate policy options to address health policy challenges facing the U.S., including economic and political implications
- Recommend a course of action for addressing a health policy challenge, including the likely effect on efficiency, quality, effectiveness, costs, and equity
- Design an effective political strategy to achieve a desired health policy outcome
- Prepare professional quality health policy memos, reports, and presentations 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 for part-time students*, see pp. 7-11.			
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 1
Spring (3.75 credits)			
HPM 247	Political Analysis and Strategy for U.S. Health Policy	2.5	Spring 2
HPM 945B	Applied Practice & Integrative Learning Experience for HP	1.25	Spring 2
Additional HP Requirements (5.0 credits)			
Policy Perspectives: Choose <u>one</u> course from the list of approved options below.			
HPM 213	Public Health Law		Spring 2
HPM 505	Health Care Delivery Reform in the US		Spring 1
HPM 509	Disability Policy in the U.S.	2.5	Spring 1
HPM 545	Economics of Health Care: Public vs. Market Resolutions		Spring 2
ID 240	Principles of Injury Control		Spring 1
Analytical Methods: Take a <i>minimum of 2.5 credits</i> from the list of approved options below.			
Most common choices for HP students to fulfill the analytical methods requirement:			
HPM 543	Quantitative Methods for Policy Evaluation	2.5	Spring 2
RDS 280	Decision Analysis for Health and Medical Practices	2.5	Fall 2
Other approved courses:			
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
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
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)
SBS 281	Principles of Social and Behavioral Research	2.5	Spring 1
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

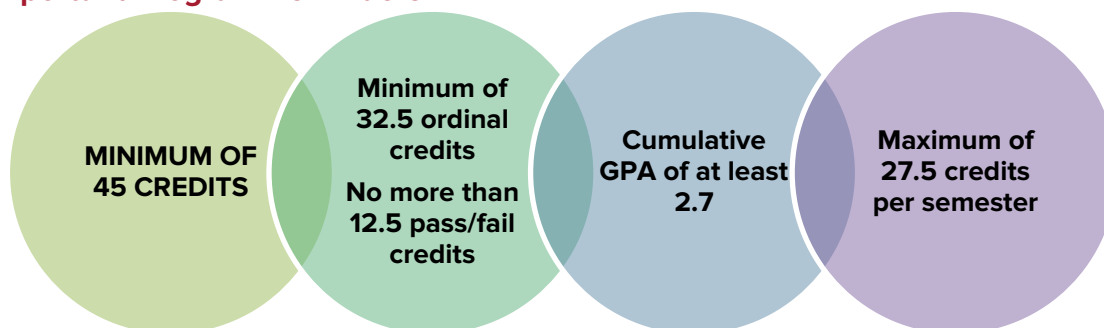
Notes for Students

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 HP student resources, visit the MPH-OEP Office's MPH Students webpage (hsph.me/mph-oed) and the Department of Health Policy and Management's Resources for New MPH Students webpage (hsph.me/hpm-student-resources).

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

Important Program Reminders



Sample Curriculum for MPH-45 in HP
(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	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	Analytical Methods or Policy Perspectives 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 or Policy Perspectives Requirement	2.5cr				
HPM 945A	Applied Practice and Integrative Learning Experience for HP	1.25cr				
Electives						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 (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 on 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 have some 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 for part-time students*, see pp. 7-11.			
Fall (12.5 credits)			
<i>Note: 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 (20 credits)			
Students must take HSB required field of study courses for an ordinal grade.			
Fall (3.75 credits)			
SBS 201	Society and Health	2.5	Fall 1
SBS 945A	Applied Practice & Integrative Learning Experience for HSB	1.25	Fall 1
Spring (8.75 credits)			
Theory-Guided Research Translation: Choose one of the 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 and Racial/Ethnic Inequalities in Health: Concepts, Models, Effective Strategies		Spring 1
SBS 281	Principles of Social and Behavioral Research	2.5	Spring 1
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
Additional HSB Requirements (7.5 credits)			
SBS Coursework: Complete 7.5 credits offered by the Dept. of Social and Behavioral Sciences.			
Varies	Students must complete an additional 7.5 credits of SBS coursework beyond the field of study requirements. To view the full list of SBS course offerings, visit hsph.me/sbs-courses-by-topic Note: Students must take 5 of the required 7.5 credits of additional SBS coursework for an ordinal grade. An independent study (e.g., SBS 300) does not count towards this requirement.	7.5	Fall &/or Spring
ELECTIVES (12.5 credits)			
To view a sample list of cross-registration electives, visit hsph.me/mpH-cross-reg			

TOTAL 45 CREDITS

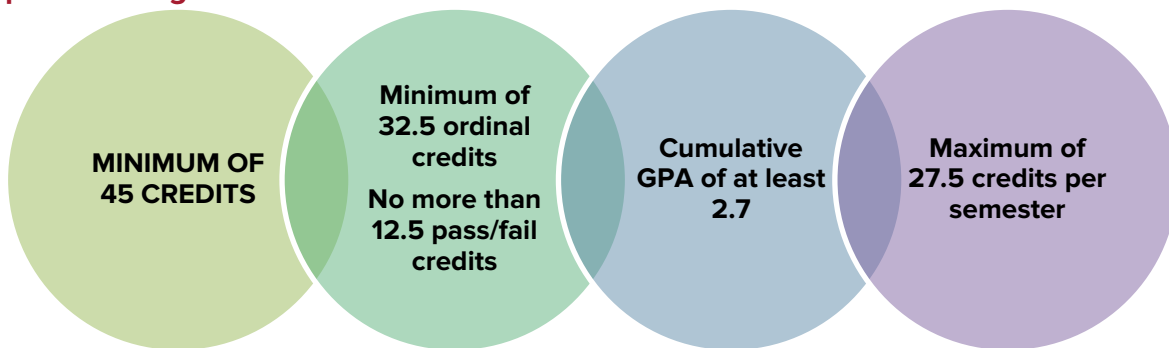
Notes for Students

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](https://hsph.harvard.edu/ MPH-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 281	Principles of Social and Behavioral Research	2.5cr
MPH 101	Qualitative Methods for Public Health	0.25cr		SBS 508	Success and Challenges in Health Behavior Change	2.5cr
MPH 102	Health Systems	1.25cr		Varies	Additional SBS Coursework Requirement	5.0cr
MPH 103	Leadership and Communication	1.25cr		SBS 945B	Applied Practice and Integrative Learning Experience for HSB	1.25cr
MPH 105	Public Health Policy and Politics	1.25cr		Work on Practicum		
SBS 201	Society and Health	2.5cr				
Varies	Additional SBS Coursework Requirement	2.5cr				
SBS 945A	Applied Practice and Integrative Learning 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 have some 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 for part-time students*, see pp. 7-11.			
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)			
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	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/mph-winter-session.

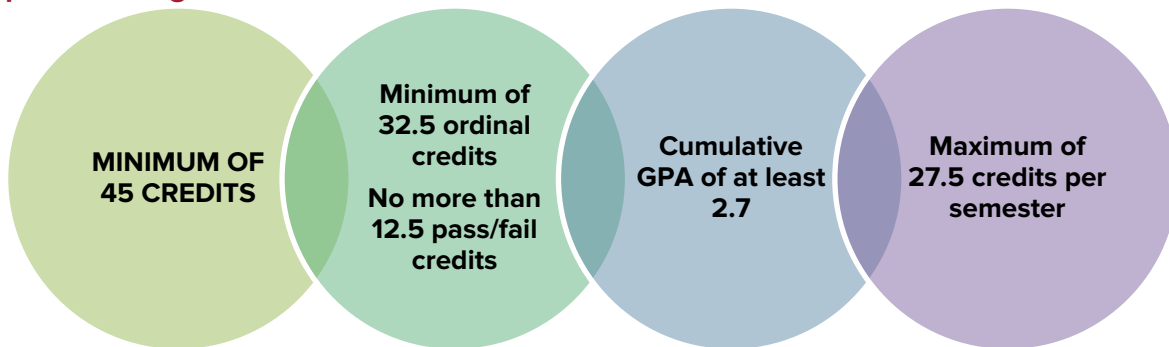
Occupational and Environmental Medicine Residency (OEMR)

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						
TOTAL CREDITS	21.25 credits					23.75 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 curriculum for the quantitative methods field of study consists of the required MPH public health core curriculum as well as 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 and 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 area. Students have some 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. 7-11.			
Fall (16.25 credits)			
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 or Summer*
MPH 102	Health Systems	1.25	Fall 1 or Winter or Summer 1*
MPH 103	Leadership and Communication	1.25	Fall 2
MPH 104	Social, Behavioral, and Structural Determinants of Health	1.25	Fall 1 or Winter or Summer 1*
MPH 105	Public Health Policy and Politics	1.25	Fall 2
FIELD OF STUDY REQUIREMENTS (15 credits)			
Regression (5.0 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 (5.0 credits)			
Varies	Take 5 <i>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 of the approved courses below. Other options may be approved by the field of study leader.			
BST 209 BST 212 BST 214 BST 217	Machine Learning: Collaborative Data Sci. in Healthcare Survey Research Methods in Community Health Principles of Clinical Trials Statistical and QM for Pharmaceutical Regulatory Science	2.5	Summer 2 Spring Spring 1 Spring 2

BST 225	Intro. to Systematic Reviews and Meta-Analysis Methods	Summer 2
EPI 233	Research Synthesis and Meta-Analysis	Spring
EPI 528	Systematic Review and Meta-Analysis	Spring (ONLINE)
ID 240	Principles of Injury Control	Spring 1
RDS 282	Economic Evaluation of Health Policy and Program Mgmt.^	Spring 2
RDS 285	Decision Analysis Methods in Public Health and Medicine^ ^Pre-req of RDS 280 or RDS 286	Spring 1
	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

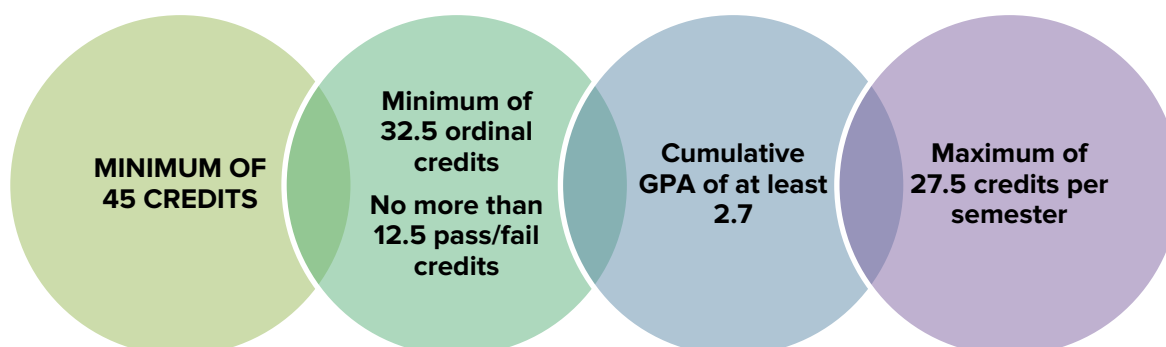
Notes for Students

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 may also enroll in MPH 101, MPH 102 and/or MPH 104 in Summer 1 if opting into BST 202 and BST 203 in summer and take 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		
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		6.25cr				7.5cr
TOTAL CREDITS	23.75 credits					21.25 credits (includes Winter Session)

END OF PROGRAM = 45 CREDITS

MPH-EPI ONLINE COURSES AT THE HARVARD CHAN SCHOOL

Academic year (residential) MPH students may enroll in the cohort model MPH-EPI courses offered by the Harvard Chan School on a space-available basis. The courses listed below are part of the MPH in Epidemiology (MPH-EPI) online/on-campus program. Priority enrollment goes first to MPH-EPI students, then to summer-only students, and then to academic year students. Some courses below may not be available for academic year students; see “course requirements” in the Harvard Course Catalog (<https://my.harvard.edu>).

For the MPH program’s policy on online credit limits, please see p. 3.

MPH-EPI ONLINE COURSE OPTIONS

Course Number	Title	Credits
Fall Options		
EPI 526	Analysis of Publicly Available Databases for Epidemiologic and Health Services Research	2.5
EPI 527	Design and Conduct of Trials in Preventive Medicine	2.5
EPI 528	Systematic Review and Meta-Analysis	2.5
HPM 559	Introduction to Qualitative Research Methods for Public Health	2.5
Spring Options		
BST 215	Linear and Longitudinal Regression	2.5
EPI 288	Introduction to Machine Learning and Risk Prediction	2.5
HPM 506	Practical Scientific Methods for Improving Health and Health Care	2.5
RDS 202	Decision Science for Public Health	2.5