



Master of Public Health 45-Credit Program Clinical Effectiveness

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 Clinical Effectiveness field of study matriculating in summer or fall 2021.

MPH-45 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		
Murray Mittleman	Faculty Director, MPH Program	mmittlem@hsph.harvard.edu Kresge 505
Anne Occhipinti	Assistant Dean for Professional Education	aocchipi@hsph.harvard.edu Kresge G-29
TBD	Program Coordinator, MPH Program	TBD
Emily Davies	Academic Program Manager, MPH Program	edavies@hsph.harvard.edu
Stephanie Lemoine	Assistant Director, MPH-EPI Program, Summer Session for Public Health Studies	slemoine@hsph.harvard.edu
Tracy Morgan	MPH Program Assistant	tamorgan@hsph.harvard.edu
Sarah Stillman	Office of Education Course Manager	stillman@hsph.harvard.edu
MPH-45 FIELD OF STUDY LEADERSHIP AND ADMINISTRATION		
	Field of Study Leader	Academic Administrator(s)
Clinical Effectiveness (CLE)	Heather Baer hbaer@bwh.harvard.edu	Emily Davies and TBD mph@hsph.harvard.edu
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
Health Management (HM)	Bonnie Blanchfield bblanchfield@hsph.harvard.edu	Jennifer Moltoni jmoltoni@hsph.harvard.edu
Health Policy (HP)	David Hemenway hemenway@hsph.harvard.edu	Nicole Pires npires@hsph.harvard.edu
Health & Social Behavior (HSB)	Vaughan Rees vrees@hsph.harvard.edu	Teresa Bellone tbellone@hsph.harvard.edu Daniel Choi danielchoi@hsph.harvard.edu Whitney Waddell wwaddell@hsph.harvard.edu
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](https://hsph.harvard.edu/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
- **Field of Study Waiver and Substitution Requests:** MPH-OEP Office
(mph@hsph.harvard.edu), Field of Study Leader, and Academic Administrator(s)

REGISTRAR'S OFFICE || [hsph.me/registrar](https://hsph.harvard.edu/hsph/me/registrar)

Kresge G-4 Suite

registrar@hsph.harvard.edu

617-432-1032

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

OFFICE FOR ALUMNI AFFAIRS || [hsph.me/alumni-office](https://hsph.harvard.edu/hsph/me/alumni-office)

90 Smith Street, Fourth Floor

alumni@hsph.harvard.edu

OFFICE FOR CAREER AND PROFESSIONAL DEVELOPMENT || [hsph.me/career-services](https://hsph.harvard.edu/hsph/me/career-services)

Kresge G-4 Suite

careers@hsph.harvard.edu

OFFICE OF DIVERSITY AND INCLUSION || [hsph.me/diversity](https://hsph.harvard.edu/hsph/me/diversity)

Kresge G-4 Suite

odi@hsph.harvard.edu

OFFICE OF FINANCIAL AID || [hsph.me/fin-aid-office](https://hsph.harvard.edu/hsph/me/fin-aid-office)

Kresge G-4 Suite

financialaid@hsph.harvard.edu

OFFICE OF REGULATORY AFFAIRS AND RESEARCH COMPLIANCE || [hsph.me/orarc](https://hsph.harvard.edu/hsph/me/orarc)

- Institutional Review Board (IRB) contact

OFFICE FOR STUDENT AFFAIRS || [hsph.me/student-affairs](https://hsph.harvard.edu/hsph/me/student-affairs)

Kresge G-4 Suite

studentaffairs@hsph.harvard.edu

- **Housing Resources:** [hsph.me/housing](https://hsph.harvard.edu/hsph/me/housing)
- **Student Support Services:** [hsph.me/support-services](https://hsph.harvard.edu/hsph/me/support-services)

CLINICAL EFFECTIVENESS POLICIES AND PROCESSES

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/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/mph-waivers) or contact the MPH-OEP Office (mph@hsph.harvard.edu).

Students who have previously earned credits as a non-degree Program in Clinical Effectiveness (PCE) student will have those credits automatically transferred to their degree program after matriculation. If students want to transfer other non-degree credits earned at the Harvard Chan School in a separate semester, 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 of the Student Billing website.

FIELD OF STUDY & PROGRAM CHANGES

For questions about either changing your field of study or changing your program from academic year CLE to summer-only CLE or vice versa, contact the MPH-OEP Office (mph@hsph.harvard.edu). It is very important to be aware of which program option (academic year or summer-only) you have selected because there are some differences in the program, particularly with regard to fulfilling the field of study requirements and the practice requirement. If you have not selected the correct option for your needs, please contact the MPH-OEP Office as soon as possible. Students may make a change early in the program but cannot switch back and forth. Students interested in making a change in program will also want to consult both the Registrar's Office (registrar@hsph.harvard.edu) and the Office of Financial Aid (financialaid@hsph.harvard.edu) to discuss any financial implications.

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

For definitions of full-time, part-time, and half-time status for academic year (residential) and summer-only students, see the Harvard Chan School Student Handbook ([hsph.me/student-handbook](https://hsph.harvard.edu/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.

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.

Summer-only students planning to only enroll in Summer 2 courses must still enroll in those courses by the Summer 1 add/drop deadline or otherwise risk being withdrawn from degree candidacy. Students in their first summer of the degree program are expected to be enrolled for both Summer 1 and Summer 2 sessions.

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).

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) 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 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.

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).

Summer-Only Students

Summer-only students in the MPH-45 program typically complete the degree in 2 ½-3 summers (maximum of 3 summers). Summer-only students who take online courses and/or Winter Session courses may be able to reduce their time to degree to 2 summers, but this is not guaranteed. Note that this does not result in a reduction in tuition for the program.

International Students

International students who are on a student visa may not be part-time. Please speak with the Harvard International Office (HIO) if you have questions regarding your student visa (elizabeth_capuano@harvard.edu) and with the Registrar's Office (hsph.me/registrar).

MASTER OF PUBLIC HEALTH: PROGRAM OVERVIEW

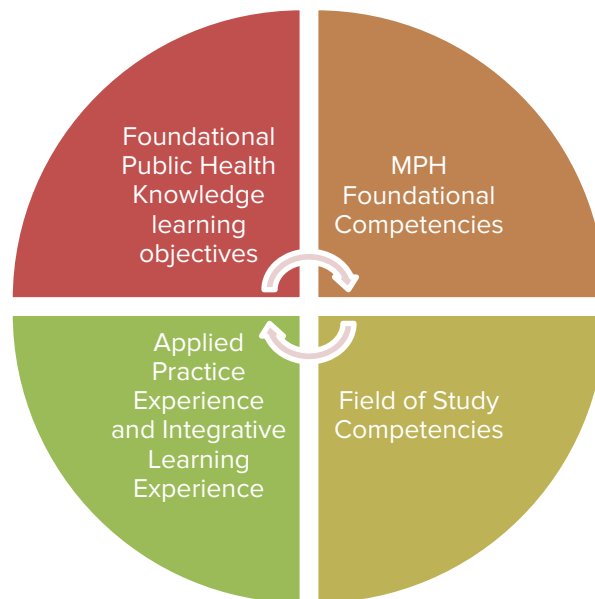
The MPH degree is the most widely recognized professional credential for leadership in public health. The MPH curriculum emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health. The program is organized around the Foundational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



CLINICAL EFFECTIVENESS FIELD OF STUDY OVERVIEW

The **Clinical Effectiveness (CLE) field of study** is focused on identifying the most appropriate, ethical, and cost-effective means of providing health care through prevention, early detection, and treatment. With this focus, the field of study is designed to provide the analytical and quantitative training necessary to evaluate the impact of clinical practices, decisions, and interventions. Major areas of professional interest within this field include clinical epidemiology and biostatistics, cost-effectiveness analysis, medical decision analysis, health services research, quality improvement in health care, and measurement of health-related quality of life. Along with the broad perspective on general aspects of public health that the program offers, this training provides a basis for identifying the health policy implications and public health benefits of clinical investigations. The field of study prepares students for clinical research responsibilities and for leadership roles in evaluating and improving all aspects of health care delivery. Most graduates hold positions in academic medicine. *Limited to clinicians who enroll initially in the Program in Clinical Effectiveness (hsph.me/clinical-effectiveness).*

CURRICULUM

The curriculum for the Clinical Effectiveness field of study consists of the required MPH public health core curriculum as well as introductory courses in clinical epidemiology and biostatistics, which students take during the Program in Clinical Effectiveness. Students also take more advanced coursework in relevant areas such as epidemiology and biostatistics, health services research, quality improvement, and decision sciences. Students must also complete an approved Applied Practice Experience and an Integrative Learning Experience which usually involves an applied research project. Students have some credits available for elective courses.

FIELD OF STUDY COMPETENCIES

- Develop a comprehensive understanding of the role of epidemiology and biostatistics in providing a quantitative approach for examining the effectiveness of clinical decisions and interventions
- Critically evaluate the methods and results of observational and experimental studies that are designed to examine the effectiveness of clinical decisions and interventions, such as cohort studies, case-control studies, quasi-experimental studies, and randomized controlled trials
- Design and conduct valid and efficient studies in specific areas that are relevant to clinical effectiveness research, such as clinical epidemiology, health services research, comparative effectiveness research, and quality improvement
- Calculate and interpret epidemiologic measures of frequency and association that are used in studies designed to examine the effectiveness of clinical decisions and interventions
- Apply appropriate biostatistical techniques, using computer software packages, to analyze and interpret data from studies that are designed to examine the effectiveness of clinical decisions and interventions, including crude analyses, stratified analyses, and regression methods

NAVIGATING YOUR FIELD OF STUDY

This guide provides detailed information for the Clinical Effectiveness field of study, including the policies and processes for all CLE students, as well as those only applicable to academic year or summer-only CLE students. This guide also includes an **overview**, the field of study **competencies**, and the field of study **curriculum** that is designed to help students achieve those competencies.

A section of the MPH-OEP website ([hsph.me/mph-online-curriculum-guide](https://hsph.harvard.edu/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. (This version of the MPH-45 Curriculum Guide only features the Clinical Effectiveness field of study. To view curricula for the other MPH-45 fields of study, visit [hsph.me/mph-curriculum-guide](https://hsph.harvard.edu/mph-curriculum-guide).) 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

Your assigned academic advisor can be found in [my.harvard](https://my.harvard.edu). 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](https://hsph.harvard.edu/navigating-your-field-of-study).

INTERDISCIPLINARY CONCENTRATIONS

To learn more, visit [hsph.me/interdisciplinary-concentrations](https://hsph.harvard.edu/interdisciplinary-concentrations) (only open to AY students).

TRACKING YOUR DEGREE PROGRESS

The MPH-OEP Office offers degree audit sheets for the Clinical Effectiveness field of study ([hsph.me/mph-degree-tracking](https://hsph.harvard.edu/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.

CLINICAL EFFECTIVENESS DEGREE REQUIREMENTS

DEGREE REQUIREMENTS FOR ALL CLE STUDENTS

- **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 ACADEMIC YEAR CLE STUDENTS

- Can take a maximum of **27.5 credits** in fall and spring semesters
- Can take a maximum of **15 credits** in summer term
- Limited to a maximum of **3.75 online credits of MPH-EPI courses** (see p. 22) **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

Academic year (residential) international students who are on a student visa must enroll in a minimum of 15 credits per fall and spring semester, including a minimum of 11.25 credits of in-person courses per semester. 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 fall and spring semester. 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>).

PROGRAM POLICIES FOR SUMMER-ONLY CLE STUDENTS

- Can take a maximum of **15 credits** in summer term. (EPI 947 practicum credits count towards this maximum)
- Limited to a maximum of **5 online credits of MPH-EPI courses** (see p. 22) **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
- Can take up to **5 credits** of Winter Session coursework per term (hsph.me/mph-winter-session)

- Can take **2.5 – 7.5 practicum credits** (EPI 947) in any semester of the program
- Registering for only practicum credits (EPI 947) in summer term:
 - Summer-only degree students are required to enroll in on-campus courses during the summer term. If a student wants to enroll in only their practicum and no other on-campus summer courses, they may do so if the student is in their final semester, and this is the last remaining requirement to complete their degree. Students will be required to submit the Final Summer Practicum Intent Form (hsph.me/registrar-forms) to the Registrar's Office before the add/drop deadline for the applicable summer term.
 - If a student is not able to enroll in on-campus courses during the summer term and does not meet the criteria above, they will be required to submit a Leave of Absence Petition (hsph.me/registrar-forms).

MPH-45 CLINICAL EFFECTIVENESS – ACADEMIC YEAR 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.

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 their first year to ensure early grounding in the foundational principles of public health. To learn more about the MPH public health core curriculum, visit hsph.me/mph-core.

ACADEMIC YEAR CLINICAL EFFECTIVENESS CORE REQUIREMENTS				
Course Number	Title	Semester	Credits	Notes
Biostatistics and Epidemiology Core (10 credits)				
BST 206	Introductory Statistics for Medical Research	Summer 1	2.5	
BST 207 or BST 208	Statistics for Medical Research	Summer 2	2.5	
EPI 208	Introduction to Clinical Epidemiology	Summer	5.0	

MPH Public Health Core (6.25 credits)				
<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>				
ID 100	Foundations for Public Health	Summer into Fall 1	1.0 (Pass/Fail Only)	Asynchronous, self-paced, online course. Takes approx. 10-12 hours total. Must be completed in first year of program.
<i>Academic year CLE students have some flexibility when choosing which terms to complete MPH 101 – MPH 105. Students must submit a petition to request permission to enroll in MPH core courses offered outside of the fall semester. For more information, see next page.</i>				
MPH 101	Qualitative Methods for Public Health: A Brief Introduction	Summer or Fall 2	0.25 (Pass/Fail Only)	Asynchronous, self-paced, online course. Takes approx. 8-10 hours total. Must be completed in first year of program.
MPH 102	Health Systems	Summer 1 or Fall 1 or Winter Session	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 103	Leadership and Communication	Fall 2	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 104	Social, Behavioral, and Structural Determinants of Health	Summer 1 or Fall 1 or Winter Session	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 105	Public Health Policy and Politics	Fall 2	1.25	Synchronous online course that meets weekly.

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.

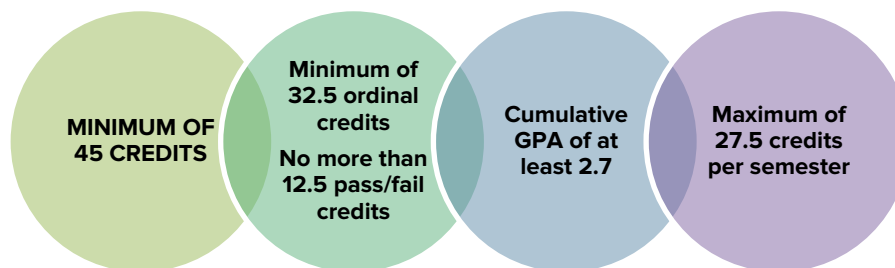
In general, it is highly recommended that students complete the MPH 102 – MPH 105 core courses in their first year. Students who are unable to do so should prioritize MPH 103 and MPH 105. No waivers or substitutions will be allowed for MPH 101 – MPH 105.

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.

ACADEMIC YEAR CLINICAL EFFECTIVENESS FIELD OF STUDY REQUIREMENTS

Course Number	Title	Semester	Credits
Regression (2.5 – 5.0 credits)			
<i>Choose one of the approved courses below.</i>			
BST 210	Applied Regression Analysis	Fall or Spring	5.0
BST 213	Applied Regression for Clinical Research	Fall	5.0
BST 215	Linear and Longitudinal Regression	Summer 2 or Spring (ONLINE)	2.5
EPI 236	Analytical Clinical Epidemiology	Summer 1	5.0
Upper-Level CLE Coursework (5.0 credits)			
<i>Upper-level CLE courses are defined as any courses beyond the introductory level that provide students with analytic and/or quantitative skills for evaluating clinical/public health issues.</i>			
Varies	Take 5 credits from the list of approved courses (hsph.me/CLE-upper-level).		5.0
Applied Practice Experience and Integrative Learning Experience (2.5 credits)			
<i>Two semesters required; 1.25 credits per semester for a total of 2.5 credits of EPI 946.</i>			
EPI 946F	Applied Practice and Integrative Learning Experience for CLE (Academic Year)	Fall	1.25
EPI 946S	Applied Practice and Integrative Learning Experience for CLE (Academic Year)	Spring	1.25
ELECTIVES (16.25 – 18.75 credits)			
<i>To view a sample list of cross-registration electives, visit hsph.me/mpg-cross-reg</i>			
			TOTAL 45 CREDITS

Important Program Reminders



APPLIED PRACTICE EXPERIENCE AND INTEGRATIVE LEARNING EXPERIENCE

Each field of study in the MPH program requires 1) an Applied Practice Experience (APE) (“Practicum”), and 2) an Integrative Learning Experience (ILE), 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.

EPI 946F (Fall) and EPI 946S (Spring) satisfy the Applied Practice Experience and the Integrative Learning Experience that is required for academic year Clinical Effectiveness students. It involves two main components 1) working on a project to integrate and apply the skills and competencies learned in coursework to address a clinical or public health problem of interest, and 2) participating in a weekly seminar course (EPI 946) for two semesters, in which students present their practicum projects to faculty and other students.

Applied Practice Experience

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 to an external organization; and enhance the skills needed to function in a professional public health setting.

For Clinical Effectiveness students, the Applied Practice Experience, referred to as the practicum, usually will involve conducting an applied research project, but it could also pertain to any applied aspect of health care. The practicum may include aspects of biostatistics, epidemiology, decision sciences, or other quantitative aspects of public health. Students are required to submit two Applied Practice Experience products from their practicum work, demonstrating a total of five competencies (three foundational and two field of study-specific competencies).

The student will formulate a research question and hypothesis, develop an analysis plan, conduct the statistical analysis, and summarize the findings in a presentation. Students may develop a project using data from their home institutions, from mentors/collaborators at other institutions, from publicly available databases, or from other sources. In some cases, students may collect their own data (e.g., by developing and administering a survey), although primary data collection is not a requirement. Each student will be required to complete a brief planning survey about their practicum in the fall of their first year. Each student also will be required to submit a Learning Agreement, which is a brief outline of the proposed project, prior to beginning the project and according to the timeline below. The CLE field of study leader must approve the practicum topic and the Learning Agreement. Students may find it helpful to see examples of past Clinical Effectiveness practicum projects (hsph.me/mph-prior-practice). For more detailed information about the CLE practicum, including instructions for submitting the Learning Agreement, see hsph.me/CLE-practicum.

Full-time students who are completing the degree in one academic year should aim to identify their practicum topic by the end of Fall 1. Part-time students who are completing the degree in two or more academic years should aim to identify their practicum topic by

the end of their first year. Students usually identify their own topic for the practicum, but any student who is unsure of an appropriate topic should meet with the CLE field of study leader early in their program to discuss potential topics.

Integrative Learning Experience

Students are required to attend two semesters of EPI 946 (usually in the second or third year if students are doing the degree part-time). In addition, each student must do a formal presentation of the results of their practicum project during the EPI 946 seminar (usually during their second semester of the course) or, in special cases, at another seminar that is approved by the CLE field of study leader. Students who cannot attend EPI 946 on a regular basis due to extenuating circumstances must discuss alternative options with and obtain approval from the CLE field of study leader (although please note that approval is not guaranteed).

MPH-45 CLINICAL EFFECTIVENESS – SUMMER-ONLY 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. To learn more about the MPH public health core curriculum, visit hsph.me/mph-core.

SUMMER-ONLY CLINICAL EFFECTIVENESS CORE REQUIREMENTS				
Course Number	Title	Semester	Credits	Notes
Biostatistics and Epidemiology Core (10 credits)				
BST 206	Introductory Statistics for Medical Research	Summer 1	2.5	
BST 207 or BST 208	Statistics for Medical Research	Summer 2	2.5	
EPI 208	Introduction to Clinical Epidemiology	Summer	5.0	

MPH Public Health Core (6.25 credits)

*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](https://my.harvard.edu) prior to the Fall/Fall 1 add/drop deadline. For more information, see next page.*

ID 100	Foundations for Public Health	Summer into Fall 1	1.0 (Pass/Fail Only)	Asynchronous, self-paced, online course. Takes approx. 10-12 hours total. Must be completed in first year of program.
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*Summer-only CLE students have some flexibility when choosing which terms to complete **MPH 101 – MPH 105**. Students must [submit a petition](#) to request permission to enroll in MPH core courses offered outside of the fall semester. For more information, see next page.*

MPH 101	Qualitative Methods for Public Health: A Brief Introduction	Summer or Fall 2	0.25 (Pass/Fail Only)	Asynchronous, self-paced, online course. Takes approx. 8-10 hours total. Must be completed in first year of program.
MPH 102	Health Systems	Summer 1 or Fall 1 or Winter Session	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 103	Leadership and Communication	Fall 2	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 104	Social, Behavioral, and Structural Determinants of Health	Summer 1 or Fall 1 or Winter Session	1.25	Asynchronous online course with set deadlines for completion of each module.
MPH 105	Public Health Policy and Politics	Fall 2	1.25	Synchronous online course that meets weekly

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.

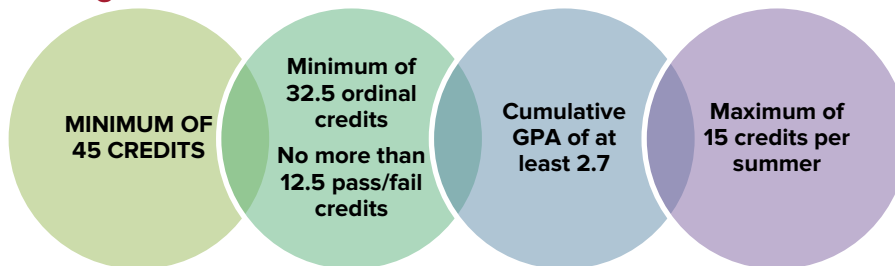
MPH 101 – MPH 105

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 summer but must finish the course by the end of the summer term (or Fall 2, 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. No waivers or substitutions will be allowed for MPH 101 – MPH 105.

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.

SUMMER-ONLY CLINICAL EFFECTIVENESS FIELD OF STUDY REQUIREMENTS			
Course Number	Title	Semester	Credits
Regression (2.5 – 5.0 credits) <i>Choose <u>one</u> of the approved courses below.</i>			
BST 215	Linear and Longitudinal Regression	Summer 2 or Spring (ONLINE)	2.5
EPI 236	Analytical Clinical Epidemiology	Summer 1	5.0
Upper-Level CLE Coursework (5.0 credits) <i>Highly recommended (but not required) for summer-only CLE.</i>			
Varies	Take 5 credits from the list of approved courses (hsph.me/CLE-upper-level).		5.0
Applied Practice Experience and Integrative Learning Experience (2.5 – 7.5 credits) <i>Credit load and semester is determined with practice course instructor.</i>			
EPI 947	Applied Practice and Integrative Learning Experience for CLE (Summer-Only)	Any	2.5 – 7.5
ELECTIVES (16.25 – 23.75 credits)			
			TOTAL 45 CREDITS

Important Program Reminders



APPLIED PRACTICE EXPERIENCE AND INTEGRATIVE LEARNING EXPERIENCE

Each field of study in the MPH program requires 1) an Applied Practice Experience (APE) (“Practicum”), and 2) an Integrative Learning Experience (ILE), 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.

Applied Practice Experience

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 to an external organization; and enhance the skills needed to function in a professional public health setting.

Summer-only Clinical Effectiveness students develop a practicum at their home institution under the supervision of a local mentor and a member of the faculty at the Harvard Chan School. The practicum may include aspects of biostatistics, epidemiology, decision sciences, or other quantitative aspects of public health. Students are required to submit two Applied Practice Experience products from their practicum work, demonstrating a total of five competencies (three foundational and two field of study-specific competencies).

Students should apply the competencies learned in core courses to an actual investigation. Each student will be required to complete a brief planning survey about their practicum in the fall of their first year. Each student also will be required to submit a Learning Agreement, which is a brief outline of the proposed project, prior to beginning their practicum (typically by the end of their second summer in the MPH program). The CLE field of study leader must approve the practicum topic and the Learning Agreement. Summer-only CLE students must have a local mentor (at their own institution), as well as a Harvard faculty mentor for their practicum, and this information must be included in the Learning Agreement. The CLE field of study leader can serve as the student’s Harvard faculty mentor, in some cases, or can help identify another appropriate faculty mentor if needed. Students may find it helpful to see examples of past Clinical Effectiveness practicum projects ([hsph.me/mph-prior-practice](https://hsph.harvard.edu/mph-prior-practice)). For more detailed information about the CLE practicum, including instructions for submitting the Learning Agreement, see [hsph.me/CLE-practicum](https://hsph.harvard.edu/cle-practicum).

Integrative Learning Experience

To meet the Integrative Learning Experience requirement, students usually will write a paper suitable for publication, a grant proposal, or a technical report, which integrates and builds upon the learnings from their practicum. This exercise will culminate with a presentation typically in the final summer of the student’s program, although summer-only CLE students can enroll for EPI 947 (EPI 947U, EPI 947F, EPI 947S, EPI947W) practicum credits and present their MPH practica during any period of the year. However, please note that students cannot register for EPI 947 until they have submitted their Learning Agreement and it has been approved by the CLE field of study leader. In addition, EPI 947 can only be taken as pass/fail.

MPH-EPI ONLINE COURSES AT THE HARVARD CHAN SCHOOL

Academic year (residential) and summer-only 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. 9.

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
EPI 529	Applications of Epidemiology	1.25
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
EPI 529	Applications of Epidemiology	1.25
HPM 506	Practical Scientific Methods for Improving Health and Health Care	2.5
RDS 202	Decision Science for Public Health	2.5