Enclosed is information about the Master of Public Health (MPH) program. Students must select one of seven fields of study to focus their studies and to gain depth in particular areas of interest. This guide includes the basics for the MPH degree, required core courses, and requirements for each of the fields of study. Descriptions of courses listed here, as well as a full list of courses available at the School, can be found at: www.hsph.harvard.edu/registrar/courses

If you have any questions regarding the MPH program or curriculum, please contact:

Anne Occhipinti
Assistant Dean for Professional Education
Phone: 617-432-3530
Email: aocchipi@hsph.harvard.edu

Emily Davies
Program Administrator
Phone: 617-432-0090
Email: edavies@hsph.harvard.edu

Office of Education
Harvard T.H. Chan School of Public Health
677 Huntington Avenue, Kresge G-29
Boston, MA 02115

If you have any questions regarding admissions or financial aid, please contact:

Office of Admissions
Harvard T.H. Chan School of Public Health
158 Longwood Avenue
Boston, MA 02115
Phone: 617-432-1031
Email: admissions@hsph.harvard.edu

Office of Financial Aid
Harvard T.H. Chan School of Public Health
677 Huntington Avenue, Kresge G-4
Boston, MA 02115
Phone: 617-432-1867
Email: osfs@hsph.harvard.edu

www.hsph.harvard.edu/master-of-public-health-program/current-students

AUGUST 2015
**NOTE:** Every effort is made to ensure the information contained in this guide is accurate at the time of printing. However, the Harvard T.H. Chan School of Public Health reserves the right to make changes in degree requirements, courses of instruction, faculty, and other information contained herein. For any questions about fulfilling degree requirements or changing fields of study, please contact the MPH Program Office, housed in the Office of Education, Kresge G-29.

This version of the MPH Curriculum Guide is effective for all students beginning degree enrollment as of July or September 2015. Students whose degree enrollment began prior to 2015 are “grandfathered” under the rules in place at the time they began their MPH degree enrollment.

If you have any questions regarding the MPH program or curriculum, please contact:

Anne Occhipinti  
Assistant Dean for Professional Education  
Phone: 617-432-3530  
Email: aocchipi@hsph.harvard.edu

Emily Davies  
Program Administrator  
Phone: 617-432-3042  
Email: edavies@hsph.harvard.edu

Jennifer Faria  
Program Coordinator  
Phone: 617-432-0090  
Email: jfaria@hsph.harvard.edu

Office of Education  
Harvard T.H. Chan School of Public Health  
677 Huntington Avenue, Kresge G-29  
Boston, MA 02115
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MPH Steering Committee  
2015 – 2016

The names and contact information for the field of study leaders within the MPH program are listed below. These same faculty members also make up the MPH Steering Committee, which meets monthly to review policies and compliance with accreditation requirements. Information about faculty members and their research interests can be found at: www.hsph.harvard.edu/faculty

Murray Mittleman  
Faculty Director, MPH Program  
mmittlem@hsph.harvard.edu

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>Leader</th>
<th>Location</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLE</strong></td>
<td>Heather Baer</td>
<td>1620 Tremont St. 1 Brigham Circle 3rd Floor</td>
<td><a href="mailto:hbaer@partners.org">hbaer@partners.org</a></td>
</tr>
<tr>
<td><strong>CLE</strong></td>
<td>Fran Cook</td>
<td>SPH3 – 9th Floor EPI Dept. or 1620 Tremont St 1 Brigham Circle 3rd Floor, 2H</td>
<td><a href="mailto:ecook@partners.org">ecook@partners.org</a></td>
</tr>
<tr>
<td><strong>GH</strong></td>
<td>Paul Campbell</td>
<td>SPH1 – 1206-B</td>
<td><a href="mailto:pcampbel@hsph.harvard.edu">pcampbel@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>HM</strong></td>
<td>Sara Singer</td>
<td>SPH3 – 317</td>
<td><a href="mailto:ssinger@hsph.harvard.edu">ssinger@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>HP</strong></td>
<td>Nancy Turnbull</td>
<td>SPH3 – 303</td>
<td><a href="mailto:nturnbul@hsph.harvard.edu">nturnbul@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>HSB</strong></td>
<td>Marie McCormick</td>
<td>SPH3 – 619</td>
<td><a href="mailto:mmccormi@hsph.harvard.edu">mmccormi@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>OEH</strong></td>
<td>Stefanos Kales</td>
<td>SPH1 1406-D</td>
<td><a href="mailto:skales@hsph.harvard.edu">skales@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>QM</strong></td>
<td>Murray Mittleman</td>
<td>SPH3 – 9th Floor EPI Dept.</td>
<td><a href="mailto:mmittlem@hsph.harvard.edu">mmittlem@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>QM</strong></td>
<td>Marcia Testa</td>
<td>SHP1 – 417</td>
<td><a href="mailto:testa@hsph.harvard.edu">testa@hsph.harvard.edu</a></td>
</tr>
<tr>
<td><strong>Summer-Only</strong></td>
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</tbody>
</table>
SCHOOL-WIDE RESOURCES

In addition to the MPH Curriculum Guide, students at the Harvard T.H. Chan School of Public Health should become familiar with the following resources found on the School’s website or by visiting the appropriate office:

**Harvard Chan School Courses and Schedules**
www.hsph.harvard.edu/registrar/courses

**Procedure for Cross-Registration at Other Schools**
www.hsph.harvard.edu/registrar/cross-registration
Contact: Harvard Chan School Registrar’s Office, registrar@hsph.harvard.edu

**Harvard University-Wide Course Catalog**
https://coursecatalog.harvard.edu

**2015-2016 Academic Calendar**
www.hsph.harvard.edu/registrar/academic-calendar

**Harvard Chan School Student Handbook**
www.hsph.harvard.edu/student-handbook

**Harvard Chan School Photo Directory**
www.hsph.harvard.edu/people

**Office of Financial Aid**
www.hsph.harvard.edu/osfs
Contact: Kathy Austin, Director of Financial Aid

**Office for Student Affairs**
www.hsph.harvard.edu/student-affairs
Contact: Leah Kane, Director for Student Affairs

**Office for Alumni Affairs and Career Advancement**
http://alumni.sph.harvard.edu
www.hsph.harvard.edu/careers
Contact: Jim Smith, Assistant Dean for Alumni Affairs and Career Advancement
Contact: Randi Friedman, Director of Career Advancement
The overall objectives of the MPH program are:

(i) to provide training in public health to qualified health professionals and to other individuals whose prior training and experience prepares them to play a leadership role in public health;

(ii) to adapt MPH training to the diverse backgrounds and anticipated future careers of students;

(iii) to award the MPH degree to individuals who have acquired a particular depth of knowledge in public health sciences and who have demonstrated the following capacities to:

- understand the distribution of major determinants of health in populations relevant to the candidate’s anticipated career course,
- effectively contribute to the management of health services,
- analyze risks and devise strategies for a healthier environment, a safer workplace, and fewer injuries,
- identify ways in which changes in behavior and social structures may affect the health of populations;

(iv) to lead students to achieve these capacities in a setting that demands that the students query, learn, persuade, and communicate in active interchange with their peers, with faculty, and with practitioners outside the School.

The MPH degree is the most widely recognized professional credential for leadership in public health. The program emphasizes active, student-directed learning, problem solving, and the acquisition of skills essential to the practice of public health. The program is organized around seven career-oriented fields of study and a core curriculum. Each field of study offers electives that allow students to explore in depth areas relevant to their personal career goals.

We encourage you to carefully review the field of study requirements and consult with faculty advisors to choose elective courses that are best suited to your needs. There are some similarities across the fields of study, and it is important to choose classes that provide both depth and breadth in your chosen area, and assist you in developing expertise in a focus area relevant to your professional interests.

Please note: Information was current at time of printing, however, course changes may occur and students are responsible for checking the Registrar's Courses and Schedules website: www.hsph.harvard.edu/registrar/courses
GENERAL MPH GUIDELINES

The MPH program is housed in the Office of Education (OED). In order to complete the program, all students must fulfill the following requirements regardless of their field of study:

1. 45 credits minimum
2. 32.5 credits minimum graded ordinally (A, B, C, etc.)
3. Up to 12.5 credits may be taken Pass/Fail as long as the student has 32.5 ordinal credits. Be sure to check if core or field of study requirements are listed as Pass/Fail only. (Please check with the OED/MPH Office for specifics.) This is your responsibility.
4. Successful completion of all courses required by your particular field of study
5. Cumulative grade point average of at least 2.7

- While the Harvard Chan School does not accept courses in transfer, students who have taken equivalent courses at another School of Public Health may petition to waive a requirement. All MPH students matriculating in 2015 must fulfill the 45.0 credit minimum requirement at the Harvard Chan School in order to graduate. Please contact the OED/MPH Office for specific information about waivers.

- Advising: Assignment of student advisors is guided by the student’s interests. Students may request a change of advisor once the term begins and should contact the OED/MPH Office with any advising concerns. In addition, students have access to a variety of resources for advising about their academic programs. Faculty advisors, field of study leaders, other faculty with particular areas of expertise, and administrative advisors are valuable in guiding specific interests and issues. Students should check with the OED/MPH Office for questions related to core courses and requirements for graduation.

- Graduation: Completion of core requirements for the MPH degree is monitored by the OED/MPH Office. This office has the most current information on requirements, options, and course alternatives. In addition to meeting with your faculty advisors, please check with the OED/MPH Office to be sure your planned curriculum choices meet all MPH requirements. This office also has information about options that previous students have selected. This is your responsibility.

- All graduating MPH students receive a Master of Public Health degree regardless of field of study.

- Preventive Medicine: Students preparing for Board Certification in Preventive Medicine should check with the OED/MPH Office regarding requirements. Additional information can be found on the American Board of Preventive Medicine website: www.abprevmed.org

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*For students who begin their degree program in July 2015 and after: Master of Public Health (MPH) students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.*
CORE REQUIREMENTS
MPH core requirements are developed in accordance with the guidelines established by the Council on Education for Public Health (CEPH) and the MPH Steering Committee. The CEPH establishes core areas required of all students receiving a professional degree in public health at accredited institutions. Courses required to fulfill the core may vary for each field of study. Students are responsible for reviewing the specific guidelines for their chosen field of study and the options listed in this guide.

FIELDS OF STUDY
A field of study provides students with a focus during an intense period of study. In addition to the basic core, a field of study may require or recommend courses particularly valuable to its relevant area of focus. All core and additional required courses must be taken to fulfill the requirements of the field of study and the MPH degree.

REQUIRED AND RECOMMENDED COURSES WITHIN A FIELD OF STUDY
MPH students are expected to take a sufficient number of courses within their chosen field of study in order to provide depth in a specific area. Graduates who can demonstrate skill and training in a particular area offer an employer greater strength than graduates whose education is broad but lacks depth.

ELECTIVES BEYOND CORE AND FIELD OF STUDY REQUIREMENTS
The courses at the Harvard Chan School provide a rich selection for students, permitting very broad choices. Students are not restricted in their selection of elective courses; however, planning ahead wisely is strongly advised. Students should review all current course offerings at www.hsph.harvard.edu/registrar/courses. Harvard Chan students with particular interests also have the opportunity to select courses at any of the other Harvard graduate schools, MIT, and the Fletcher School of Law and Diplomacy at Tufts University. For courses available at other Harvard graduate schools, please refer to https://coursecatalog.harvard.edu. Students are responsible for reviewing and confirming cross-registered course options and credits at MIT and Tufts.

Please be aware that some elective courses have prerequisites that must be taken before enrolling. At the beginning of the term and in consultation with their advisor and/or field of study leader, students should consult the recommendations established by their field of study and develop a careful plan by reviewing the course descriptions provided by the Registrar’s Office. Please note: Some courses are only offered alternate years.

FIELD OF STUDY CHANGES
Students considering a change of field of study must submit their request to the OED/MPH Office no later than Wednesday, September 9, 2015, to ensure that the request can be considered by the relevant field of study admissions committee in sufficient time for the committee to make a decision before the end of the add/drop period for Fall and Fall 1 courses.
This section contains the basic MPH core requirements for all fields of study (FoS). For each core area there may be a variety of courses that will fulfill the core. Please be sure to check the section relevant to your field of study to determine if there are specific courses that your field of study requires to fulfill a particular core area. The abbreviation for a specific field of study is noted in parentheses if that field of study requires a specific course to fulfill a particular core area.

In general, at least one course under each core heading is required for each field of study. Please review the options and the specific field of study requirements, particularly those where more than one course is required to fulfill that core requirement.

For ANY questions regarding core requirements, please check with the Office of Education/MPH Program Office, Kresge G-29.

CREDITS AND SEMESTERS

Students may take up to 25 credits in a given semester. The semester is divided into two terms, e.g. Fall 1 and Fall 2 or Spring 1 and Spring 2, indicating when a course is offered. Each semester's registration should include all courses planned for the fall semester or the spring semester. Courses meeting during the whole semester are designated as “Fall” or “Spring.” Courses meeting half of a semester are indicated by a 1 or 2 (e.g. “Fall 1”, “Spring 2”). The Registrar’s Office lists these segments by date ranges for each course. A summary is on the back of this document.

The January “Winter Session” courses are listed under the spring semester schedule and also under the Winter Session schedule. Credits for Winter Session courses are counted in the spring total. The Summer Session for Public Health Studies includes the “Summer 1” and “Summer 2” terms. Please check with the OED/MPH Office to ensure you are completing the necessary core requirements.

Course length does not necessarily determine course credit and vice versa. Courses that are 2.5 credits may span one or both terms of a semester, depending on the number of times the course meets per week. For example, SBS 201 [Fall 1] is worth 2.5 credits and meets twice per week during Fall 1, whereas ID 215 [Spring] is also worth 2.5 credits and meets only once per week during the entire spring semester. All Summer Session courses meet five days per week during Summer 1 or Summer 2.

The official course schedule and the complete academic calendar can be found at: www.hsph.harvard.edu/registrar
MPH CORE REQUIREMENTS: ALL FIELDS OF STUDY
(Please note specific designations)

BIOSTATISTICS – collection, storage, retrieval, analysis, and interpretation of health data; design and analysis of health-related surveys and experiments; and concepts and practice of statistical data analysis.

BIOSTATISTICS CORE COMPETENCIES

- Demonstrate the roles biostatistics serves in the discipline of public health.
- Interpret graphical and descriptive techniques commonly used to summarize public health data.
- Describe basic concepts of probability, random variation, and commonly used statistical probability distributions.
- Apply common statistical methods for estimation and inference and use them appropriately according to underlying assumptions and type of study design.
- Interpret the results of statistical analyses to provide evidence within the context of public health, health care, biomedical, clinical, and population-based studies and research.
- Develop basic skills for utilizing statistical computing software for performing data analyses.

Biostatistics Courses Fulfilling the Core
Minimum 5.0 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 201 [Fall]</td>
<td>Core Principles of Biostatistics and Epidemiology for Public Health Practice (GH, HM, HP, HSB, OEH)</td>
<td>7.5</td>
</tr>
<tr>
<td>BIO 201 [Fall]</td>
<td>Introduction to Statistical Methods (QM)</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO 206 [Summer 1]</td>
<td>Introduction to Statistics for Medical Research (CLE)</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO 207 [Summer 2] or BIO 208 [Summer 2]</td>
<td>Statistics for Medical Research II (CLE)</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO 202 [Summer 1] and BIO 203 [Summer 2]†</td>
<td>Principles of Biostatistics I and II</td>
<td>5.0</td>
</tr>
</tbody>
</table>

The Biostatistics core varies by field of study. Be sure to check the requirements for your field of study.

† Students may use BIO 202 [Summer 1] and BIO 203 [Summer 2] and EPI 500 [Summer 1] in place of ID 201 [Fall].
EPIDEMIOLOGY – distributions and determinants of disease, disabilities, and death in human populations; the characteristics and dynamics of human populations; and the natural history of disease and the biologic bases of health.

EPIDEMIOLOGY CORE COMPETENCIES

- Describe the role of epidemiology as a quantitative approach to address problems in public health and clinical medicine.
- Describe and apply the basic principles and methods of epidemiology including: disease measures, association and causation, bias, confounding and effect modification, and susceptibility.
- Interpret descriptive epidemiologic results in order to develop hypotheses of possible risk factors of a disease.
- Develop a foundation for designing valid and efficient epidemiologic studies to address public health problems including: understanding the strengths and limitations of descriptive, observational, and experimental studies.
- Become a critical reader of epidemiologic literature by analyzing the appropriateness of study design, quality of data, methodological strategies, and interpretation of results.

### Epidemiology Courses Fulfilling the Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 201 [Fall]</td>
<td>Core Principles of Biostatistics and Epidemiology for Public Health Practice</td>
<td>7.5</td>
</tr>
<tr>
<td>or</td>
<td>EPI 201 [Fall 1] (QM)</td>
<td>Introduction to Epidemiology: Methods I</td>
</tr>
<tr>
<td>and</td>
<td>EPI 202 [Fall 2] (QM)</td>
<td>Introduction to Epidemiology: Methods II</td>
</tr>
<tr>
<td>or</td>
<td>EPI 208 [Summer] (CLE)</td>
<td>Introduction to Clinical Epidemiology</td>
</tr>
<tr>
<td>or</td>
<td>EPI 505 [Summer 1]</td>
<td>Epidemiology Methods for Global Health</td>
</tr>
</tbody>
</table>

Please note: EPI 505 is only offered to students in the Global Health Delivery Summer Intensive program during Summer Session.
ENVIRONMENTAL HEALTH SCIENCES – environmental factors including biological, physical, and chemical factors that affect the health of a community.

ENVIRONMENTAL HEALTH SCIENCES CORE COMPETENCIES

- Characterize the human health effects, both acute and chronic, of major environmental and occupational hazards such as: air pollution, metals, organic pollutants, microbial contamination of drinking water, and physical hazards.

- Analyze sources, pathways, and routes of exposure to these environmental and occupational hazards [and safety], and determine the populations with a high risk of exposure.

- Assess the factors that can modify the overall impact of environmental and occupational hazards on a population (e.g., age, genetic polymorphisms, nutritional, and disease states).

- Apply risk assessment and risk management concepts to develop effective guidelines and policies to mitigate and manage environmental and occupational hazards and improve health outcomes.

<table>
<thead>
<tr>
<th>Environmental Health Sciences Courses Fulfilling the Core*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum 2.5 credits</strong></td>
</tr>
<tr>
<td>EH 201 [Fall 2] or [Summer 2]</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>EH 202 [Spring 1]</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>EH 232 [Spring]</td>
</tr>
<tr>
<td>or</td>
</tr>
</tbody>
</table>

*For students in the OEH field of study, the Environmental Health Sciences core is included in the field of study requirements.*
HEALTH SERVICES ADMINISTRATION – planning, organization, administration, management, evaluation, and policy analysis of health and public health programs.

HEALTH SERVICES ADMINISTRATION CORE COMPETENCIES

The Health Services Administration (HSA) core courses are classified into three groups for purposes of core competencies: health management, health economics, and health policy and politics. Students are required to fulfill the core competencies for one of these groups and in the cross-cutting HSA competencies.

Most students fulfill the HSA core competencies by taking one HSA core course and through their practicum project.

A. Health Management
   • Develop financial literacy.
   • Demonstrate understanding of the human, social, and economic dynamics of organizational behavior.
   • Develop competency in making effective managerial decisions under conditions of uncertainty.

B. Health Economics
   • Articulate the functions of supply and demand.
   • Assess the extent to which real markets diverge from perfect markets.
   • Apply models of rational choice to markets.
   • Assess the effects of financial and payment incentives on the behavior of individuals and organizations.
   • Apply these tools of economic analysis to new policy issues and proposals.

C. Health Policy and Politics
   • Demonstrate capacity to apply a conceptual framework for understanding political and policy processes in health care.
   • Explain how political institutions and processes influence resource allocation in health care.
   • Understand basic organization, financing, and delivery of health services and public health systems.
   • Discuss the policy process for improving the health status of populations.

For students in the Health Management, Health Policy, Global Health, and Occupational & Environmental Health fields of study, the Health Services Administration core is included in the field of study requirements (see next page for details). Students in other fields of study may select from these courses or from options indicated here. Carefully review the selections and be sure to consult with your advisor, the field of study leader, and the OED/MPH Office for ANY questions you may have about this core.
### HEALTH MANAGEMENT

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPM 219(2)</td>
<td>Financial Transactions and Analysis</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 220</td>
<td>Financial Management and Control</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 510</td>
<td>Introduction to Management of Health Care Organizations</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 539</td>
<td>Health Care Organizations and Organizational Behavior</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 231</td>
<td>Occupational Health Policy and Administration</td>
<td>2.5</td>
</tr>
</tbody>
</table>

*Health Mgmt. FoS Req.*

### HEALTH ECONOMICS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPM 206</td>
<td>Economic Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>HPM 209</td>
<td>Economics for Health Policy</td>
<td>2.5</td>
</tr>
<tr>
<td>GHP 230</td>
<td>Intro. to Economics with Applications to Health &amp; Development</td>
<td>2.5</td>
</tr>
</tbody>
</table>

*Health Policy FoS Req.*

### HEALTH POLICY AND POLITICS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHP 244</td>
<td>Health Sector Reform: A Worldwide Perspective</td>
<td>2.5</td>
</tr>
<tr>
<td>GHP 269</td>
<td>Applied Politics and Economics I: Political Econ. of Intl. Health</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 210</td>
<td>United States Health Policy</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 247</td>
<td>Political Analysis and Strategy for U.S. Health Policy</td>
<td>5.0</td>
</tr>
<tr>
<td>HPM 277</td>
<td>Current Issues in Health Policy</td>
<td>2.5</td>
</tr>
</tbody>
</table>

### Limited Option: Quantitative Methods and Clinical Effectiveness

- RDS 280 [Fall 2] Decision Analysis for Health and Medical Practices 2.5
- RDS 286 [Summer 1] Decision Analysis in Clinical Research 2.5

*For students in the Health Management, Health Policy, Global Health, and Occupational & Environmental Health fields of study, the Health Services Administration core is included in the field of study requirements as noted.

**Not offered in 2015-16**
SOCIAL AND BEHAVIORAL SCIENCES – concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems.

SOCIAL AND BEHAVIORAL SCIENCES CORE COMPETENCIES

- Compare social, developmental, and behavioral theories of health, health behavior, and illness, and analyze their applicability to different types of health problems.
- Formulate social and behavioral change interventions based on these theories that are appropriate and responsive to the social and cultural context.
- Develop program and policy implementation skills, including communication, advocacy, and engaging the media.
- Design and implement program evaluations using qualitative and quantitative methods.
- Critique the validity of basic behavioral and evaluation research.
- Identify individual, organizational, and community concerns, assets, resources, and deficits for social and behavioral science interventions.

Social and Behavioral Sciences Courses Fulfilling the Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBS 201</td>
<td>Society and Health</td>
<td>2.5</td>
</tr>
<tr>
<td>or SBS 207</td>
<td>Race, Ethnicity, and Health</td>
<td>2.5</td>
</tr>
<tr>
<td>or SBS 250</td>
<td>Research on Social and Behavioral Health</td>
<td>2.5</td>
</tr>
<tr>
<td>or SBS 281</td>
<td>Principles of Social and Behavioral Research</td>
<td>2.5</td>
</tr>
<tr>
<td>or SBS 503</td>
<td>Explaining Health Behavior: Insights from Behavioral Economics</td>
<td>2.5</td>
</tr>
<tr>
<td>or SBS 506</td>
<td>Disease Distribution Theory/A</td>
<td>2.5</td>
</tr>
</tbody>
</table>
ETHICS – application of moral and political philosophical principles and processes of moral reasoning to resolve dilemmas arising in public health policy and practice.

MPH ETHICS REQUIREMENT: CORE COMPETENCIES

- Develop aptitude for analyzing the ethical assumptions and components underlying health policy decisions.
- Develop proficiency in examining critically the basic vocabulary and concepts of the main alternative lines of argument in areas of moral philosophy relevant to public health.
- Develop and apply philosophical ideas and arguments to practical problems underlying public health challenges.
- Develop ability to criticize and defend ethical arguments that are applied to public health challenges.
- Develop attention to how arguments for and against positions on public health dilemmas are sensitive to changes in evidence, circumstance, or one’s assumptions.

<table>
<thead>
<tr>
<th>Ethics of Public Health Practice</th>
<th>Minimum 2.5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 250 [Fall 1] or [Spring 1]</td>
<td>Ethical Basis of the Practice of Public Health</td>
</tr>
<tr>
<td>or ID 251 [Summer 1]</td>
<td>Ethical Basis of the Practice of Public Health</td>
</tr>
<tr>
<td>or ID 292 [Spring 2]</td>
<td>Justice and Resource Allocation</td>
</tr>
<tr>
<td>or ID 513 [Spring 1]</td>
<td>Ethics and Health Disparities</td>
</tr>
<tr>
<td>or GHP 293 [Fall 2]</td>
<td>Individual and Social Responsibility for Health</td>
</tr>
</tbody>
</table>

PRACTICE AND CULMINATING EXPERIENCE
credits are specific to each field of study – see FoS requirements

Each field of study in the MPH program requires a practice and culminating experience, which is completed by working on a project with an outside organization or agency, within a practice course or seminar course. The objectives of this experience are to help you to integrate, synthesize, and apply the knowledge and skills from your coursework to a real world public health problem or issue, explore a substantive public health topic that is of interest to you, enhance the skills needed to function in a professional public health setting, and engage in professional self-assessment and critical reflection.
SUMMER PROGRAMS:
SUMMER SESSION AND PROGRAM IN CLINICAL EFFECTIVENESS

The Summer Session for Public Health Studies is open to degree and non-degree students seeking training in public health. Summer courses are only offered for credit. Students accepted for admission to a Harvard Chan School degree program may choose to begin their studies early by enrolling in the Summer Session; these students may have additional flexibility in course selection during the academic year.

The Program in Clinical Effectiveness (PCE) is an intensive seven-week, 15 credit summer program and is designed for clinicians seeking the quantitative and analytic skills needed for clinical research or interested in health care administration. This program is limited primarily to local applicants who must have a guaranteed position in a clinical department in a Boston-area teaching hospital and to applicants from outside of Boston who have formal sponsorship from their teaching hospital.

The Summer Session for Public Health Studies and the Program in Clinical Effectiveness share most of the courses offered in the summer and follow the same schedule.

Degree Programs
Courses taken in the Summer Session or in the Program in Clinical Effectiveness may count for academic credit towards a degree program. Please note that attendance in and successful completion of summer courses does not guarantee admission to a degree program. Non-degree students taking summer courses who seek a degree from the Harvard Chan School must apply separately to a degree program at the School following the standard admissions process.

Summer-Only MPH Program
The School offers a summer-only program for individuals seeking an MPH degree in the Quantitative Methods or the Clinical Effectiveness fields of study ONLY. Candidates for the summer-only MPH must hold a doctoral degree. Qualified students with an interest in the areas of Quantitative Methods or Clinical Effectiveness may complete a degree program through courses offered in the Summer Session. The degree requirements take three years to complete, over three summers, and offer only a limited range of courses. Summer-only students may enroll in Winter Session courses. Summer-only options are NOT available in the other fields of study.

Summer Course Offerings Fulfilling Core Requirements for the MPH Program

<table>
<thead>
<tr>
<th>Biostatistics:</th>
<th>Health Services Administration:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 202</td>
<td>HPM 209 Economics for Health Policy</td>
</tr>
<tr>
<td>Principles of Biostatistics: Part I</td>
<td>HPM 277 Current Issues in Health Policy*</td>
</tr>
<tr>
<td>-and-</td>
<td>HPM 510 Intro. to Management of Health Care Organizations</td>
</tr>
<tr>
<td>BIO 203</td>
<td>RDS 286 Decision Analysis in Clinical Research</td>
</tr>
<tr>
<td>Principles of Biostatistics: Part II</td>
<td>(fulfills Health Services Administration core for QM and CLE only)</td>
</tr>
<tr>
<td>BIO 206</td>
<td>Social and Behavioral Sciences:</td>
</tr>
<tr>
<td>Introduction to Statistics for Medical Research</td>
<td>SBS 201 Society and Health</td>
</tr>
<tr>
<td>-and-</td>
<td>SBS 250 Research on Social and Behavioral Health</td>
</tr>
<tr>
<td>BIO 207 or BIO 208</td>
<td>Ethics:</td>
</tr>
<tr>
<td>(PCE only)</td>
<td>ID 251 Ethical Basis of the Practice of Public Health</td>
</tr>
<tr>
<td>*Not offered in summer 2015</td>
<td></td>
</tr>
</tbody>
</table>

Epidemiology: |

EPI 500 Fundamentals of Epidemiology |

EPI 208 (PCE only) Introduction to Clinical Epidemiology |

Environmental Health: |

EH 201 Introduction to Environmental Health |

ID 215 Environmental and Occupational Epidemiology |
INDIVIDUAL FIELD OF STUDY OUTLINES:

GLOBAL HEALTH FIELD OF STUDY

The Global Health (GH) field of study explores the emerging professional and academic domain of global health, emphasizing the development of analytical and methodological skills to effectively respond to key challenges affecting the health of populations in a global context. Students will enhance their ability to apply epidemiological, economic, political, and managerial analysis to the design, implementation, and evaluation of health policies and programs.

The Global Health MPH program has been designed to prepare global health professionals who seek to:

- Provide effective leadership at all levels of the health system;
- Define the nature, impact, and determinants of health problems as they transcend national and sector boundaries;
- Develop and implement appropriate policies to alleviate these health problems; and,
- Design, manage, and evaluate health intervention programs.

Graduates of the program work in:

- Provincial or national ministries of health;
- Inter-governmental organizations;
- Donor aid agencies;
- Non-governmental (or non-profit) organizations;
- Entrepreneurial initiatives; and
- Both large and small proprietary organizations.

Curriculum

Students learn from school-wide core courses in public health as well as required courses in global health challenges and strategies, economic and political analysis, health system reform, program evaluation, financial management and control, and financing and delivery of health care. 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 low- and middle-income countries. In addition, students must complete an approved practicum/field experience project. And they will have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

Students are encouraged to choose electives that will help them develop an area of interest and expertise. They can select courses that: 1) comprise an organized school-wide interdisciplinary concentration in topical areas like “Humanitarian Studies, Ethics and Human Rights”, or 2) are part of a (GHP) departmental-organized cluster such as “Health Systems”, or 3) strengthen skills in disciplines such as political science, economics, management, or demography.
GLOBAL HEALTH DEGREE COMPETENCIES

Faculty in the Department of Global Health and Population (GHP) have identified three competency domains comprising twelve competencies, listed below, that they use to plan and evaluate curriculum for MPH students who have selected Global Health as their primary field of study.

- The **Knowledge Domain** reflects the belief that all students should have a basic understanding of global health problems, as well as underlying causes and potential solutions.

- The **Methods, Analysis, and Synthesis Domain** reflects the belief that most global health solutions require multidisciplinary approaches to the population-based challenges they are designed to address. Students will enhance their competencies in this domain via study in a wide variety of disciplines, including epidemiology, biostatistics, environmental health science, political science, economics, and medicine.

- The **Translation and Execution Domain** reflects the belief that successful global health interventions require more than a deeper understanding of problems, causes and interventions and enhanced analytical skills. Managers and leaders must also be able to implement evidence-based solutions in complex health systems, a difficult organizational challenge in public health which is focused on population rather than individual health.

After completion of the master’s degree, graduates will be able to:

**Knowledge Domain**
1: Identify global health problems and underlying causes, and be able to explain those problems to specialist as well as non-specialist audiences;
2: Describe historical changes in fertility, mortality, causes of death, and the burden of disease;
3: Explain key demographic and health transitions;
4: Identify interventions to address global health problems in particular national, sub-national, and global contexts, and provide arguments to support prioritizations of interventions at those different levels; and,
5: Explain how health care and the social, economic, legal, and political environments in which people live affect population health outcomes.

**Methods, Analysis, and Synthesis Domain**
6: Analyze a problem in global health and population drawing concurrently from a variety of disciplines, including anthropology, biostatistics, epidemiology, economics, environmental health science, ethics, political science, and demography, characterizing the current state of understanding; and,
7: Generate novel, testable hypotheses relevant to global health problems, including both policy and program dimensions.

**Translation and Execution Domain**
8: Use state of the art methods for improving health system and organizational performance, including monitoring and evaluation, to achieve a positive global health result;
9: Formulate processes to enable positive and substantial health system and organizational change to effectively implement a global health program or intervention;
10: Communicate effectively with groups and individuals across status and cultural differences both within health systems and organizations to create a positive environment for work and collaboration, and externally, to achieve organizational goals; and,
11: Apply social justice and human rights principles in the design, implementation, and evaluation of public health policies and programs; and,
12: Apply policy development skills to contribute to the formulation and implementation of positive global health-related policies.
SECTION 1: School-Wide Public Health Core Requirements (15 credits)

(i) Biostatistics and Epidemiology 7.5 credits
ID 201 [Fall]* Core Principles of Biostatistics and Epidemiology for Public Health Practice
or
Other Approved Options as Appropriate (see pages 7-8)

*This integrated course will fulfill both the Biostatistics and Epidemiology core requirements.

(ii) Environmental Health Sciences 2.5 credits
Select one of the approved options on page 9.

(iii) Health Services Administration
The Health Services Administration core is included in the Global Health field of study requirements.

(iv) Social and Behavioral Sciences 2.5 credits
Select one of the approved options on page 12.

(v) Ethics of Public Health Practice 2.5 credits
Select one of the approved options on page 13.
SECTION 2: Global Health – Field of Study Requirements (22.5 credits)

Note: Courses are listed under the domain that best reflects their principle coverage of the competencies listed earlier. In fact, most, if not all of the following courses address multiple domains and competencies.

Global Health students must complete the following field of study-specific requirements:

1. **Knowledge Domain**
   GHP 557 [Fall] Fundamentals of Global Health 5.0

2. **Methods, Analysis, and Synthesis Domain**
   BIO 507 [Spring 1] Intro. to Quantitative Methods for Monitoring & Evaluation 2.5
   GHP 230 [Fall 1]* Intro. to Economics with Applications to Health & Development 2.5
   GHP 244 [Fall 2] Health Sector Reform: A Worldwide Perspective 2.5
   GHP 562 [Spring 2] Program Monitoring & Evaluation Methods for Use in Field Settings 2.5

   *Fulfills Health Services Administration core requirement

3. **Translation and Execution Domain**
   HPM 220 [Spring 1]* Financial Management & Control 2.5

   *MPH-GH students should enroll in the Spring 1 offering of HPM 220

   **And** select one of the following:
   GHP 532 [Spring 1] Introduction to Global Health Care Delivery 2.5
   or
   GHP 245 [Spring 2] Financing & Delivery of Health Care in Developing Countries 2.5

4. **Practice and Field Experience**
   GHP 530 [Fall] and [Spring] Global Health Practice 2.5

   *This course is required for all students in the MPH-Global Health field of study as part of the program’s practicum and culminating experience requirements. The course provides the opportunity to develop the practical application of knowledge and skills acquired during the MPH-GH year. It also enables students to take advantage of opportunities to connect with professionals and communities of practice in global health.

   **The main elements of the course are:**
   a. The global health practice experience, which can be developed either by students or Harvard Chan faculty and staff and often includes project travel and/or work during Winter Session. For all projects, at least 125 work hours need to be documented.
   b. The preparation of a global health practice report which includes both a description of the project undertaken as well as the lessons gained from the experience.

   Regular course sessions will take place during the fall and spring terms. A detailed course schedule will be provided with the syllabus at the beginning of the course.
SECTION 3: Electives (7.5 credits)

School-Wide Interdisciplinary Concentrations:

MPH students have the option of pursuing school-wide interdisciplinary concentrations in addition to the global health field of study. These six concentrations are non-degree programs designed to deepen students’ experience in academic or professional areas aligned with their career goals. Please see page 58 for more information.

GHP Departmental Educational and Research Clusters:

Faculty members in the Department of Global Health and Population have organized their educational and research activities within three clusters which can help guide students’ elective selections. While some students may decide not to formally join an interdisciplinary concentration, with the guidance of their academic advisor, they may utilize the courses listed for each concentration and create their own group of courses in a particular area.

A. Humanitarian Studies, Ethics, and Human Rights
B. Population and Family Health
C. Global Health Systems

A. Humanitarian Studies, Ethics, and Human Rights

Students interested in the Humanitarian Studies, Ethics, and Human Rights cluster are encouraged to consider the HuSEHR interdisciplinary concentration. Information about this area can be found on page 58.

B. Population and Family Health

Students interested in the Population and Family Health cluster should explore the subspecialties offered in the interdisciplinary concentrations such as Nutrition and Global Health; Epidemiology and Infectious Disease; Women, Gender & Health; and Maternal and Child Health (see pages 59-60).

C. Global Health Systems

Students who would like to specialize in Global Health Systems are directed to the Public Health Leadership interdisciplinary concentration (see page 58) or the list of courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHP 552 [Fall 2] or [Spring 2]</td>
<td>Leadership Development in Global Health</td>
<td>1.25</td>
</tr>
<tr>
<td>RDS 280 [Fall 2]</td>
<td>Decision Analysis for Health and Medical Practices</td>
<td>2.5</td>
</tr>
<tr>
<td>RDS 282 [Spring 2]</td>
<td>Economic Evaluation of Health Policy &amp; Program Management</td>
<td>2.5</td>
</tr>
<tr>
<td>School-Wide Public Health Core Requirements*</td>
<td>Credits</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Biostatistics &amp; Epidemiology</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 credits</td>
<td></td>
</tr>
</tbody>
</table>

*The Health Services Administration core is included in the Global Health field of study requirements.

<table>
<thead>
<tr>
<th>Global Health – Field of Study Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Global Health</td>
</tr>
<tr>
<td>Intro. to QM for Monitoring &amp; Evaluation</td>
</tr>
<tr>
<td>Intro. to Economics</td>
</tr>
<tr>
<td>Health Sector Reform</td>
</tr>
<tr>
<td>Program Monitoring &amp; Evaluation Methods</td>
</tr>
<tr>
<td>Financial Management &amp; Control</td>
</tr>
<tr>
<td>Option of GHP 532 or GHP 245</td>
</tr>
<tr>
<td>Practice and Field Experience</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

| Electives                                  | 7.5 credits** |
|                                            |              |

| Total Requirements                         | 45 credits   |

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.
HEALTH MANAGEMENT FIELD OF STUDY

The Health Management (HM) field of study prepares students for management careers in the unique environment of health care. Students who choose the management field of study select from courses providing practical management skills, such as accounting, finance, operations, marketing, quality improvement, leadership and management of people, and strategy. Students will be able to analyze and take actions to improve organizational performance using the skills and frameworks learned in coursework and through field experiences.

Program graduates have filled many management and leadership roles in health care organizations, including public or private sector health delivery systems, health insurance plans, and supply sector organizations, as well as working as consultants.

Curriculum
The curriculum for the health management field of study consists of the required school-wide core courses in public health as well as required field of study courses in financial analysis, management control, data analysis, organizational behavior, operations, marketing, strategy, and innovation. Students also will be required to participate in a structured field placement or a business plan competition. In addition, elective credits may be taken at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

HEALTH MANAGEMENT DEGREE COMPETENCIES

Through coursework and practice experiences, students in the Health Management field of study will demonstrate the ability to:

- Describe and apply the basic language and concepts that underpin managerial decision-making (financial, operations, organizational behavior, marketing, strategy).
- Critically evaluate organizational structures, processes, and performance in managerial terms and apply appropriate principles and concepts to address organizational issues.
- Assess a health care management situation, develop alternative courses of action, and make appropriate managerial decisions consonant with that assessment, and aligned with recommendations from the management literature.
- Demonstrate ability to understand, analyze, and make decisions based on financial and accounting information, and be able to analyze the behavioral, financial, operational, and ethical implications of third party payment systems.
- Design and execute performance measurement systems using statistical, qualitative, clinical, financial, and other administrative measures to drive organizational performance toward strategic goals.
## SECTION 1: School-Wide Public Health Core Requirements (15 credits)

<table>
<thead>
<tr>
<th>(i) Biostatistics and Epidemiology</th>
<th>7.5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 201 [Fall]*</td>
<td>Core Principles of Biostatistics and Epidemiology for Public Health Practice</td>
</tr>
<tr>
<td>or</td>
<td>Other Approved Options as Appropriate (see pages 7-8)</td>
</tr>
<tr>
<td>*This integrated course will fulfill both the Biostatistics and Epidemiology core requirements.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(ii) Environmental Health Sciences</th>
<th>2.5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the approved options on page 9.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(iii) Health Services Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Health Services Administration core is included in the Health Management field of study requirements.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(iv) Social and Behavioral Sciences</th>
<th>2.5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the approved options on page 12.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(v) Ethics of Public Health Practice</th>
<th>2.5 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the approved options on page 13.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 2: Health Management – Field of Study Requirements (22.5 credits)

Health Management students must complete the following field of study-specific requirements:

A. Financial Analysis/Management Control*
   HPM 219(2) [Fall 1] Financial Transactions and Analysis 2.5
   and
   HPM 220 [Fall 2] Financial Management and Control 2.5
   *Fulfills Health Services Administration core requirement

B. Data Analysis
   HPM 242 [Spring 1] Data Analysis for Professionals 2.5

C. Organizational Behavior
   HPM 539 [Spring 2] Health Care Organizations and Organizational Behavior 2.5

D. Operations/Process Improvement (one of the approved options below):
   HPM 232 [Spring 1] Operations Management in Service Delivery Organizations 2.5
   or
   HPM 516 [Spring 2] Health Care Quality and Safety 2.5

E. Marketing
   HPM 233 [Spring] Strategic Marketing Management in Health Systems 2.5

F. Strategy
   HPM 231 [Fall 2] Competitive Strategy 2.5

G. Innovation
   HPM 557 [Fall 2] Innovation and Entrepreneurship in Health Care 2.5

H. Practice and Field Experience
   ID 267 [Fall] and [Spring] Practice of Health Management 2.5

ID 267 is the practice and culminating experience for the health management field of study. Students are required to complete a project with an outside organization or agency and attend various class sessions. The objectives of the course are to help students to integrate, synthesize, and apply the knowledge and skills from their coursework to a real world public health problem or issue, explore a substantive public health topic that is of interest to them, enhance the skills students need to function in a professional public health setting, and engage in professional self-assessment and critical reflection.
SECTION 3: Electives (7.5 credits)

Students are free to choose electives at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

Electives that may be of interest to students in the Health Management field of study are grouped by areas of focus below:

**Economics**
HPM 206 [Fall] Economic Analysis 5.0

**Finance**
HPM 222 [Spring 2] Financial Management of Health Care Organizations 2.5

**Insurance and Payment**
HPM 255 [Spring 2] Payment Systems in Health Care 2.5

**Leadership**
HPM 245 [Winter] Public Health Leadership Skills 2.5
HPM 554 [Spring 1] Leadership in Public Health: From Theory to Action 2.5

**Marketing**
HPM 226 [Spring 1] Consumers, Corporations, and Public Health 2.5

**Negotiation**
HPM 252 [Spring 2] Negotiation 2.5
HPM 278 [Spring 2] Skills & Methods of Health Care Negotiation & Conflict Resolution 1.25

**Public Speaking**
HPM 223 [Fall 2] Public Speaking for Managers 1.25

**Quantitative Methods**
HPM 543 [Spring 2] Quantitative Methods in Program Evaluation 2.5

**Social Entrepreneurship**
HPM 251 [Spring] Social Entrepreneurship and Innovation Lab (SE Lab) for U.S. and Global Health 5.0
### MPH-Health Management Degree Requirements

**School-Wide Public Health Core Requirements*  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostatistics &amp; Epidemiology</td>
<td>7.5</td>
</tr>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15 credits</strong></td>
</tr>
</tbody>
</table>

*The Health Services Administration core is included in the Health Management field of study requirements.

**Health Management – Field of Study Requirements  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Analysis/Management Control</td>
<td>5.0</td>
</tr>
<tr>
<td>Data Analysis</td>
<td>2.5</td>
</tr>
<tr>
<td>Organizational Behavior</td>
<td>2.5</td>
</tr>
<tr>
<td>Operations/Process Improvement course (see p. 23 for options)</td>
<td>2.5</td>
</tr>
<tr>
<td>Marketing</td>
<td>2.5</td>
</tr>
<tr>
<td>Strategy</td>
<td>2.5</td>
</tr>
<tr>
<td>Innovation</td>
<td>2.5</td>
</tr>
<tr>
<td>Practice and Field Experience</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22.5 credits</strong></td>
</tr>
</tbody>
</table>

**Electives                                                              | **7.5 credits** **

**Total Requirements                                                      | **45 credits**

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.**
HEALTH POLICY FIELD OF STUDY

Students in the Health Policy (HP) field of study develop skills in applying economic, legal, and political analysis to the design, implementation, and evaluation of health care and public health policies. Through the study of biostatistics, epidemiology, and other quantitative disciplines, they also acquire skill in interpreting and evaluating scientific evidence to inform their policy work. Students are encouraged to choose elective courses that will help them develop an area of interest and expertise, such as access to care, health care quality, pharmaceutical policy, injury prevention, or health care financing.

This field of study prepares students for policy positions in the public, nonprofit, or private sectors, directly as policymakers or as policy analysts, advocates, or consultants, or in policymaking positions in other public health and health care organizations.

Curriculum
The curriculum for the health policy field of study consists of the required school-wide core courses in public health as well as required courses in economics, U.S. health policy, political analysis and strategy, and analytical methods. Students must also complete an approved practicum/field experience project. Students will have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

HEALTH POLICY DEGREE COMPETENCIES

Through coursework and field experiences, students in the Health Policy field of study will develop competencies in four domains: Knowledge of the U.S. Health System, Policy Disciplinary Perspectives, Analytical Methods, and Communication.

At the conclusion of the program, graduates will be able to:

Knowledge of the U.S. Health System

- Explain the structure, organization, delivery and financing of the U.S. health care system, and how these features affect system performance in terms of efficiency, quality, equity, and effectiveness.
- Analyze the structure, organization and financing of public health services in the U.S., the key relationships between the public health and health care systems, and how the interaction between the two systems affects population health.
- Compare and contrast the major structural features and performance of the U.S. health care system and the health care systems in other countries including organization, financing, delivery and regulation.
- Explain the major public policy issues that affect health and health care in the U.S. and the major policy approaches proposed to deal with these issues, and critically assess the strengths and weaknesses of each policy approach.

Policy Disciplinary Perspectives

- Assess the role and limits of markets in health care and apply the tools of economic analysis to policy issues and proposals.
- Analyze the influence of political institutions and public opinion on health policy formation and know how to develop effective political strategy.
- Explain how U.S. federal and state laws and regulations that authorize government intervention in the health care and public health arena are established and what purpose they serve.
Analytical Methods

- Understand the preconditions for and steps in successful implementation of policies and programs.
- Apply appropriate statistical tools, techniques, and procedures to analyze health policy issues.
- Comprehend qualitative and quantitative data collection strategies.
- Interpret substantive results of statistical analyses in public health, management, and health policy studies.
- Know the major available sources of data on health and health care in the U.S. and assess their strengths and weaknesses.
- Know how to design and implement a basic empirical analysis of a health policy question from data acquisition, data cleaning, to method selection, application, and interpretation of results.

Communication

- Write professional quality health policy memos and health policy reports with skillful use of evidence and tailored to audience(s).
- Deliver effective oral presentations on health policy topics that are appropriate to their purpose and audience.
- Explain complex health policy issues to both professional and lay audiences, including people with diverse viewpoints, outline a range of policy approaches for addressing these issues, and make a persuasive argument for particular possible approaches.
### SECTION 1: School-Wide Public Health Core Requirements (15 credits)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Biostatistics and Epidemiology</td>
<td>7.5</td>
</tr>
<tr>
<td>ID 201 [Fall]*</td>
<td>Core Principles of Biostatistics and Epidemiology for Public Health Practice or Other Approved Options as Appropriate (see pages 7-8)</td>
</tr>
<tr>
<td><em>This integrated course will fulfill both the Biostatistics and Epidemiology core requirements.</em></td>
<td></td>
</tr>
<tr>
<td>(ii) Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Select one of the approved options on page 9.</td>
<td></td>
</tr>
<tr>
<td>(iii) Health Services Administration</td>
<td></td>
</tr>
<tr>
<td>The Health Services Administration core is included in the Health Policy field of study requirements.</td>
<td></td>
</tr>
<tr>
<td>(iv) Social and Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Select one of the approved options on page 12.</td>
<td></td>
</tr>
<tr>
<td>(v) Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
<tr>
<td>Select one of the approved options on page 13.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 2: Health Policy – Field of Study Requirements (20 credits)

Health Policy students must complete the following field of study-specific requirements:

1. **Knowledge of the U.S. Health System**
   - HPM 210 [Fall 2] United States Health Policy 2.5

2. **Policy Disciplinary Perspectives**
   - HPM 206 [Fall]* Economic Analysis 5.0
   - HPM 247 [Spring] Political Analysis and Strategy for U.S. Health Policy 5.0
   - (Select one of the approved options below):
     - HPM 211 [Fall 2] The Health Care Safety Net and Vulnerable Populations 2.5
     - HPM 213 [Spring 2] Public Health Law 2.5
     - HPM 520 [Fall 2] Organizing Consumer and Community Interests in the Health System 2.5
     - HPM 544 [Spring 2] The Law and Clinical Medicine 1.25
   - *Fulfills Health Services Administration core requirement

3. **Analytical Methods** (select one of the approved options below):
   - HPM 543 [Spring 2] Quantitative Methods in Program Evaluation 2.5
   - RDS 280 [Fall 2] Decision Analysis for Health and Medical Practices 2.5

4. **Practice and Field Experience**
   - ID 266 [Fall] and [Spring] Practice of Health Policy 2.5

*ID 266 is the practice and culminating experience for the health policy field of study. Students are required to complete a project with an outside organization or agency and attend various class sessions. The objectives of the course are to help students to integrate, synthesize, and apply the knowledge and skills from their coursework to a real world public health problem or issue, explore a substantive public health topic that is of interest to them, enhance the skills students need to function in a professional public health setting, and engage in professional self-assessment and critical reflection.*
**SECTION 3: Electives (10 credits)**

Students are free to choose electives at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

Electives that may be of interest to students in the Health Policy field of study are grouped by areas of focus below:

**Health Economics**
- HPM 227 [Spring] The Economics of Health Policy 5.0
- HPM 545 [Spring 1]* Health Care Issues: Public vs. Market Resolutions 2.5

**Global Health Policy**
- GHP 244 [Fall 2] Health Sector Reform: A Worldwide Perspective 2.5
- GHP 272 [Fall] Foundations of Global Health and Population 5.0
- ID 552 [Fall 2] Innovation and Global Health Systems 2.5

**Health Care Payment and Financing**
- HPM 235 [Fall 2] Managing Health Care Costs 2.5
- HPM 255 [Spring 2] Payment Systems in Health Care 2.5

**Quality and Patient Safety**
- HPM 516 [Spring 2] Health Care Quality and Safety 2.5
- SBS 505 [Spring 2]* Quality Improvement and Child Health 2.5

**Decision Sciences**
- RDS 282 [Spring 2] Economic Evaluation of Health Policy and Program Mgmt. 2.5

**Vulnerable Populations and Disparities**
- HPM 211 [Fall 2] The Health Care Safety Net and Vulnerable Populations 2.5
- HPM 520 [Fall 2] Organizing Consumer and Community Interests in the Health System 2.5
- SBS 207 [Spring 1] Race, Ethnicity, and Health 2.5
- SBS 513 [Spring 2] Measuring and Reporting Health Disparities 2.5

**Women, Children, Families, and Mental Health**
- SBS 246 [Spring 1] Issues in Maternal and Child Health Programs and Policies 2.5
- WGH 210 [Fall 2]* Women, Gender, and Health: Critical Issues in Mental Health 1.25

*Not offered in 2015-16*
<table>
<thead>
<tr>
<th>MPH-Health Policy Degree Requirements</th>
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</thead>
</table>

### School-Wide Public Health Core Requirements*  

<table>
<thead>
<tr>
<th>Requirement</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Biostatistics &amp; Epidemiology</td>
<td>7.5</td>
</tr>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
</tbody>
</table>

15 credits

*The Health Services Administration core is included in the Health Policy field of study requirements.

### Health Policy – Field of Study Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States Health Policy</td>
<td>2.5</td>
</tr>
<tr>
<td>Economic Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>Political Analysis &amp; Strategy</td>
<td>5.0</td>
</tr>
<tr>
<td>Policy Disciplinary Perspectives additional course (see p. 29 for options)</td>
<td>2.5</td>
</tr>
<tr>
<td>Analytical Methods course (see p. 29 for options)</td>
<td>2.5</td>
</tr>
<tr>
<td>Practice and Field Experience</td>
<td>2.5</td>
</tr>
</tbody>
</table>

20 credits

### Electives

10 credits**

### Total Requirements

45 credits

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.
HEALTH AND SOCIAL BEHAVIOR FIELD OF STUDY

The Health and Social Behavior (HSB) field of study is devoted to understanding health disparities and promoting health. Coursework emphasizes theoretical and analytic strategies for characterizing health problems in populations and the development of interventions. In addition, communication, advocacy, and policy formation in the public sector are addressed. Beyond the MPH core requirements, students are encouraged to develop expertise in either Social Determinants of Health and Disparities or Planned Social Change. Guidance is provided to develop a more in-depth understanding of specific health problems and vulnerable groups.

This field of study prepares students to work in diverse spheres, including federal, state, and local government; advocacy groups; voluntary health organizations; and community-based primary care settings in the United States and other countries. Posts filled by graduates include state health director; medical director of programs for child, adolescent, and women’s health; health policy analyst; and health educator. Other graduates have gone on to academic positions.

Curriculum
The curriculum for the health and social behavior field of study consists of the required school-wide core coursework in public health as well as required field of study-specific courses. All students must take an introductory society and health course, and then complete required coursework in one of two tracks: social determinants of health and disparities, or planned social change. The curriculum in each track includes required coursework both in theory and concepts and in applied methods and skills. Students must also complete an approved practicum/field experience project. Students will have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

HEALTH AND SOCIAL BEHAVIOR DEGREE COMPETENCIES

Social Determinants of Health and Disparities Track
• Analyze how social and behavioral factors determine health
• Analyze role of social and behavioral factors in creating disparities
• Use concepts related to social determinants and disparities to inform data collection, measurement, and approaches
• Compare and contrast approaches to measuring disparities
• Develop research that examines social determinants and disparities

Planned Social Change Track
• Apply the theories underlying behavioral and social change to the development of interventions – including community organizing
• Analyze the context of change, including (community, culture) and how that influences outcomes
• Demonstrate how to use a range of strategies for effecting change from individual programs, behavioral economics, policy, and communication
• Develop the elements of evaluation of interventions in context
SECTION 1: School-Wide Public Health Core Requirements (15 credits)

(i) Biostatistics and Epidemiology 7.5 credits

ID 201 [Fall]* Core Principles of Biostatistics and Epidemiology for Public Health Practice
or
Other Approved Options as Appropriate (see pages 7-8)

*This integrated course will fulfill both the Biostatistics and Epidemiology core requirements.

(ii) Environmental Health Sciences 2.5 credits

Select one of the approved options on page 9.

(iii) Health Services Administration 2.5 credits

Select one of the approved options on pages 10-11.

(iv) Social and Behavioral Sciences

The Social and Behavioral Sciences core is included in the HSB field of study requirements.

(v) Ethics of Public Health Practice 2.5 credits

Select one of the approved options on page 13.
SECTION 2: Health and Social Behavior – Field of Study Requirements (22.5 credits)

Health and Social Behavior students must complete the following field of study-specific requirements:

1. **Society and Health**
   - SBS 201 [Fall 1]*
     - Society and Health
     - 2.5
     - *Fulfills Social and Behavioral Sciences core requirement

2. HSB students must select either the **Social and Determinants of Health and Disparities track** or the **Planned Social Change track**:

   **Track #1: Social Determinants of Health and Disparities**
   - **a. Theory and Concepts** (select **one** of the approved options below):
     - SBS 207 [Spring 1]  
       - Race, Ethnicity, and Health  
       - 2.5
     - or
     - SBS 506 [Fall 1]  
       - Disease Distribution Theory/A  
       - 2.5
     - or
     - SBS 254 [Spring 2]  
       - Social Disparities, Stress, and Health  
       - 2.5
   - **b. Applied/Methods/Skills** (select **one** of the approved options below)
     - SBS 281 [Fall 2]  
       - Principles of Social and Behavioral Research  
       - 2.5
     - or
     - SBS 513 [Spring 2]  
       - Measuring and Reporting Health Disparities  
       - 2.5

   **Track #2: Planned Social Change**
   - **a. Theory and Concepts**
     - SBS 503 [Spring 2]  
       - Explaining Health Behavior: Insights from Behavioral Economics  
       - 2.5
   - **b. Applied/Methods/Skills** (select **one** of the approved options below):
     - SBS 265 [Spring 2]  
       - Program Planning: Design and Evaluation  
       - 2.5
     - or
     - SBS 501 [Spring 2]  
       - Community-Based Participatory Action Research  
       - 2.5
     - or
     - SBS 508 [Fall 2]  
       - Successes and Challenges in Health Behavior Change  
       - 2.5
     - or
     - SBS 509 [Spring 1]  
       - Health Communication in the 21st Century  
       - 2.5

3. **Higher-Level SBS Courses in Chosen Track**
   HSB students must take 12.5 credits from higher-level SBS course offerings in their chosen track. See list on following page.

4. **Practice and Field Experience**
   - ID 264 [Spring]  
     - Public Health Practice for Health and Social Behavior  
     - 2.5

   *ID 264 requires a fieldwork experience. Each student participates in a project as part of a team. The culminating experience is a formal presentation at the end of the term.*
Higher-Level SBS Course Offerings:

**Track #1: Social Determinants of Health and Disparities** (choose 12.5 credits from the following):

- SBS 208 [Fall 2]   Adolescent Health   2.5
- SBS 219 [Spring 2]   High Risk Behavior: Epidemiology and Prevention Strategies   2.5
- SBS 220 [Spring]   Society and Its Effects on Child Health   2.5
- SBS 288 [Fall 1]   Qualitative Research Methods in Public Health   2.5
- SBS 296 [Fall]   Leadership in Minority Health Policy   2.5
- WGH 220 [Spring 1]   Sexuality and Public Health   2.5

**Track #2: Planned Social Change** (choose 12.5 credits from the following):

- SBS 214 [Spring]   Developmental Disabilities II: Values, Policy, and Change   2.5
- SBS 222 [Spring 1]   Social Services for Children, Adolescents, and Families   2.5
- SBS 246 [Spring 1]   Issues in Maternal and Child Health Programs and Policies   2.5
- SBS 288 [Fall 1]   Qualitative Research Methods in Public Health   2.5
- SBS 299 [Fall]   Driving Science-Based Innovation in Early Childhood Practice and Policy   5.0
- SBS 504 [Fall 1]   Substance Abuse and Public Health   2.5
- SBS 511 [Winter]   Social Policy and Health in International Perspective   2.5
- SBS 550 [Winter]   Program Evaluation   2.5

**SECTION 3: Electives (7.5 credits)**

Students are free to choose electives from the previous list of higher-level SBS course offerings or from other elective courses at the Harvard Chan School. Students also have the additional option of cross-registering for elective courses at other Harvard Graduate Schools or MIT.

**Please note:** Students in HSB who are funded through the Maternal and Child Health (MCH) training grant MUST meet with Trish Lavoie at the beginning of the fall term to ensure that they meet the requirements of the training grant.

Trish Lavoie  
MCH Coordinator  
Department of Social and Behavioral Sciences  
Kresge 624A  
Phone: 617-432-0964   Email: tlavoie@hsph.harvard.edu
### MPH-Health and Social Behavior Degree Requirements

<table>
<thead>
<tr>
<th>School-Wide Public Health Core Requirements*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostatistics &amp; Epidemiology</td>
<td>7.5</td>
</tr>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Health Services Administration</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td><strong>15 credits</strong></td>
</tr>
</tbody>
</table>

*The Social and Behavioral Sciences core is included in the Health and Social Behavior field of study requirements.

<table>
<thead>
<tr>
<th>Health and Social Behavior – Field of Study Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Society and Health</td>
<td>2.5</td>
</tr>
<tr>
<td>Theory and Concepts course in chosen track (see p. 34)</td>
<td>2.5</td>
</tr>
<tr>
<td>Applied/Methods/Skills course in chosen track (see p. 34)</td>
<td>2.5</td>
</tr>
<tr>
<td>Higher-Level SBS courses in chosen track (see p. 35 for options)</td>
<td>12.5</td>
</tr>
<tr>
<td>Practice and Field Experience</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td><strong>22.5 credits</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th><strong>7.5 credits</strong>**</th>
</tr>
</thead>
</table>

| Total Requirements                                      | **45 credits**    |

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.**
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 field of study features two areas of interest: Occupational Health (OH) and Environmental Health (EH).

The program is designed for physicians and other professionals who intend to practice occupational/environmental medicine or to hold responsible positions in occupational and/or environmental policy and management. The occupational health area fulfills the coursework requirements of the two-year Occupational and Environmental Medicine Residency (see resident handbook for specific guidelines). This area also is intended for other physicians who wish to satisfy the didactic requirements of the American Board of Preventive Medicine for certification in occupational and environmental medicine.

**Curriculum**

The curriculum for the occupational and environmental health field of study consists of the required school-wide core courses in public health as well as required courses in occupational/environmental health. These required courses within the OEH field of study will depend on whether the student chooses the occupational health track or the environmental health track. Occupational Medicine residents must choose the occupational track and also consult the residency’s requirements. All students must complete an approved practicum/field experience project. Students will have some credits available for elective courses, which may be taken at the Harvard Chan School or by cross-registering at other Harvard Graduate Schools or MIT.

**OCCUPATIONAL AND ENVIRONMENTAL HEALTH DEGREE COMPETENCIES**

- Demonstrate competence in the five core disciplines of public health as listed on pages 6-13.
- Demonstrate competence in ethics as listed on page 13.
- Take an occupational and environmental history.
- Describe the fundamentals of exposure and environmental history.
- Explain the basic toxicology of occupational and environmental exposures.
- Identify the safety and ergonomic hazards in the workplace, and apply prevention/control methods.
- Identify air, water, food, and other hazards in the general environment, and apply prevention/control methods.
- Organize and administer occupational health programs, including programs to improve worker health and productivity.
- Organize and administer environmental health programs.
- Describe the scientific basis of occupational and environmental health regulations.
- Describe the legal, regulatory, and economic foundations of occupational/environmental health in the United States.

*The following designations indicate particular areas of emphasis or specific requirements for each focus area:

*OH Track; *EH Track
## SECTION 1: School-Wide Public Health Core Requirements (12.5 credits)

### (i) Biostatistics and Epidemiology 7.5 credits

- **ID 201 [Fall]*** Core Principles of Biostatistics and Epidemiology for Public Health Practice
  - or
  - Other Approved Options as Appropriate (see pages 7-8)

  *This integrated course will fulfill both the Biostatistics and Epidemiology core requirements.

### (ii) Environmental Health Sciences

The Environmental Health Sciences core is included in the OEH field of study requirements.

### (iii) Health Services Administration

The Health Services Administration core is included in the OEH field of study requirements.

### (iv) Social and Behavioral Sciences 2.5 credits

Select one of the approved options on page 12.

### (v) Ethics of Public Health Practice 2.5 credits

Select one of the approved options on page 13.
SECTION 2: OEH – Field of Study Requirements (17.5 – 22.5 credits)

OEH students must complete the following field of study-specific requirements:

1. **Introductory Environmental Health** (select one of the approved options below):
   - EH 201 [Fall 2] or [Summer 2] \^ Introduction to Environmental Health 2.5
   - or
   - EH 202 [Spring 1] \^ Principles of Environmental Health 2.5
   - or
   - EH 262 [Fall] \* Introduction to the Work Environment 2.5

\*EH 201, EH 202, or EH 262 fulfill the Environmental Health Sciences core requirement

2. **Ergonomics/Human Factors/Safety**
   - EH 243 [Fall] Ergonomics/Human Factors 2.5
   - and/or
   - EH 241 [Spring] Occupational Safety and Injury Prevention 2.5

3. **Principles of Toxicology**
   - EH 504 [Fall]** Principles of Toxicology 2.5 or 5.0

\**Available to physicians as a 2.5 credit option

4. **Occupational Health Policy and Administration**
   - EH 231 [Spring]\^ Occupational Health Policy and Administration 2.5

\^Fulfills Health Services Administration core requirement

5. **Introduction to Occupational Medicine**
   - EH 232 [Spring] Introduction to Occupational and Environmental Medicine 2.5

6. **Environmental and Occupational Epidemiology**
   - ID 215 [Spring] or [Summer 1] Environmental and Occupational Epidemiology 2.5

7. **Optional**
   - EH 523 [Winter] (every other year) Productivity and Health 2.5

   *May be taken for credit or audited:
   - HPM 548 [Fall 1] or [Spring 1] \# Responsible Conduct of Research 1.25

   \#Required for students on NIOSH training grant

8. **Practice and Field Experience**
   - ID 263 [Spring]\* Practice of Occupational Health 5.0

   *ID 263 focuses on the assessment of workplace and community-based hazards, the physiology and biomechanical aspects of work, and a multi-disciplinary problem-solving approach to health problems in various work and community settings.

   or

   - EH 300 [Spring] \^ Independent Practice Option for EH 2.5

   *Students in the EH track should discuss a practice option with the field of study leader.

\^OH Track; \^EH Track
9. **Additional Possible EH Core Credits**

For students in the EH track, 10 of the 20 OEH field of study required credits may be selected in consultation with the student’s academic advisor from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH 263 [Spring]</td>
<td>Analytic Methods and Exposure Assessment</td>
<td>5.0</td>
</tr>
<tr>
<td>EH 279 [Fall]</td>
<td>Radiation Environment: Its Identification, Evaluation, &amp; Control</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 278 [Spring 2]</td>
<td>Human Health and Global Environmental Change</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 292 [Spring]</td>
<td>Properties and Behavior of Airborne Particles</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 298 [Fall 1]</td>
<td>Environmental Epigenetics</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 330 [Winter]</td>
<td>Field Experience in International Occupational Health &amp; Safety</td>
<td>2.5</td>
</tr>
<tr>
<td>EH 510 [Fall]</td>
<td>Fundamentals of Human Environmental Exposure Assessment</td>
<td>2.5</td>
</tr>
<tr>
<td>RDS 500 [Spring 2]</td>
<td>Risk Assessment</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**SECTION 3: Electives (10-15 credits)**

Students are free to choose electives from the previous list of additional possible EH core credits or from other elective courses at the Harvard Chan School. Students also have the additional option of cross-registering for elective courses at other Harvard Graduate Schools or MIT.
SECTION 4: Information for OEM Residents and Harvard-NIOSH Education and Research Center Awardees

Additional Field of Study-Specific Requirements

EH 232 [Spring] and Introduction to Occupational and Environmental Medicine 2.5
EH 241 [Spring]* Occupational Safety and Injury Prevention 2.5
or
EH 243 [Fall]* Ergonomics/Human Factors 2.5

*Both EH 241, Occupational Safety and Injury Prevention, and EH 243, Ergonomics/Human Factors are required for students in the OEM Residency.

EH 504 [Fall]** Principles of Toxicology 2.5 or 5.0

NOTE: Only OEM Residency students and other physicians can opt for the 2.5 credit option for EH 504, Principles of Toxicology.

**Both EH 262, Introduction to the Work Environment, and 2.5 credits of EH 504, Principles of Toxicology are required for students in the OEM Residency.

Requirements of the Occupational Environmental Medicine Residency (OEMR) Program for MPH Degree Candidates

1) MPH students in the Occupational Environmental Medicine Residency (OEMR) must take the following courses/credits for an ordinal grade at the Harvard Chan School:

- The first 5 credits of biostatistics (or ID 201, Core Principles of Biostatistics and Epidemiology for Public Health Practice, 7.5 credits)
- The first 5 credits of epidemiology (or ID 201, Core Principles of Biostatistics and Epidemiology for Public Health Practice, 7.5 credits)
- Introduction to Occupational and Environmental Medicine (EH 232)
- Practice of Occupational Health (ID 263)

2) ANY requests for Pass/Fail status in any courses must have the signed approval of an Environmental and Occupational Medicine and Epidemiology Program (EOME) faculty member.

In the event that the deadline is closed and no faculty person is available to sign the form in person, verbal, or email permission to have Anne Occhipinti sign the form may be given by an EOME faculty member or by Ann Backus.
### MPH-Occupational and Environmental Health Degree Requirements

**School-Wide Public Health Core Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biostatistics &amp; Epidemiology</td>
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</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
</tbody>
</table>

- The Environmental Health Sciences and Health Services Administration cores are included in the OEH field of study requirements.

**Occupational and Environmental Health—Field of Study Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Environmental Health</td>
<td>2.5</td>
</tr>
<tr>
<td>Ergonomics/Human Factors/Safety</td>
<td>2.5</td>
</tr>
<tr>
<td>Principles of Toxicology</td>
<td>2.5-5.0</td>
</tr>
<tr>
<td>Occupational Health Policy and Administration</td>
<td>2.5</td>
</tr>
<tr>
<td>Introduction to Occupational Medicine</td>
<td>2.5</td>
</tr>
<tr>
<td>Environmental and Occupational Epidemiology</td>
<td>2.5</td>
</tr>
<tr>
<td>Optional (EH 523/HPM 548)</td>
<td>1.25-2.5</td>
</tr>
</tbody>
</table>

- Practice and Field Experience

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5-5.0</td>
</tr>
</tbody>
</table>

- **Total Credits:** 17.5-22.5 credits

**Electives**

- 10-15 credits**

**Total Requirements**

- 45 credits

---

**For students who begin their degree program in July 2015 and after:** MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.
The Quantitative Methods (QM) field of study, sponsored jointly by the Departments of Epidemiology and Biostatistics, provides students with the necessary quantitative and analytic skills to approach and solve problems in public health and clinical research and practice. This field of study emphasizes study design, data analysis, and the application of quantitative methods within the context of epidemiology, biostatistics, decision sciences, demography, and program evaluation. The competency-based curriculum is designed to provide health professionals with the analytical and statistical knowledge and skills required for successful public health practice and research. It is appropriate for both midcareer health professionals and those in the early stages of their careers.

Along with the broad perspective on general aspects of public health, this program prepares graduates for professional positions in clinical and population-based health research in government, health care institutions, and private industry. In addition, it provides an excellent foundation for those interested in pursuing academic careers in the health sciences.

Curriculum
The curriculum for the quantitative methods field of study consists of the required school-wide core courses in public health 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 science. Students also must complete an approved practicum project that is completed in the context of an interdepartmental practice course and an additional practice course in an area such as survey research, meta-analysis, clinical trials, decision science, or other relevant quantitative research areas. Students will have some credits available for elective courses.

**QUANTITATIVE METHODS DEGREE COMPETENCIES**

- Employ measures of health and disease status encountered in epidemiologic research, health services research, comparative effectiveness research, and public health research and practice.
- Accurately and effectively employ methods for the design, analysis and interpretation of observational studies including cohort and case-control studies.
- Define and recognize issues of exposure and disease risk, time-dependent effects, confounding, and misclassification.
- Effectively utilize methods for instrument development, assessment of reliability, validity, and responsiveness to change; and/or diagnostic and screening test evaluation.
- Apply epidemiological methods to the study of infectious and non-infectious acute and chronic diseases and their prevention.

*Academic year QM field of study requirements – See Section 2*
*Summer-only QM field of study requirements – See Section 3*
### SECTION 1: School-Wide Public Health Core Requirements (10 credits)

(i) **Biostatistics and Epidemiology**

The Biostatistics and Epidemiology cores are included in the Quantitative Methods field of study requirements.

(ii) **Environmental Health Sciences**  
2.5 credits

Select one of the approved options on page 9.

(iii) **Health Services Administration**  
2.5 credits

Select one of the approved options on pages 10-11.

(iv) **Social and Behavioral Sciences**  
2.5 credits

Select one of the approved options on page 12.

(v) **Ethics of Public Health Practice**  
2.5 credits

Select one of the approved options on page 13.
SECTION 2: Quantitative Methods – Academic Year Field of Study Requirements (25 credits)

Academic year Quantitative Methods students must complete the following field of study-specific requirements:

1. **Introductory Biostatistics**
   - BIO 201 [Fall]  Introduction to Statistical Methods  5.0
   
   *BIO 202 [Summer 1] and BIO 203 [Summer 2] may also fulfill this requirement.*

2. **Epidemiology**
   - EPI 201 [Fall 1]  Introduction to Epidemiology: Methods I  2.5
   - and
   - EPI 202 [Fall 2] or [Summer 2]  Elements of Epidemiologic Research: Methods II  2.5
   - or
   - EPI 500 [Summer 1]  Fundamentals of Epidemiology  2.5
   - and
   - EPI 202 [Fall 2] or [Summer 2]  Elements of Epidemiologic Research: Methods II  2.5

   *If academic year QM students begin in summer, they may take EPI 500 instead of EPI 201.*

3. **Regression** (select one of the approved options below):
   - BIO 210 [Fall] or [Spring]  The Analysis of Rates and Proportions  5.0
   - or
   - BIO 211 [Fall]  Regression and Analysis of Variance in Experimental Research  5.0
   - or
   - BIO 213 [Fall]  Applied Regression for Clinical Research  5.0
   - or
   - Other Approved Alternative

4. **Upper Level QM Courses**
   Academic year QM students are required to take 5 additional credits of intermediate and advanced courses in biostatistics, epidemiology, decision sciences (RDS), or demography.

   *If students use an upper level QM course to fulfill a school-wide core or field of study requirement, they may not double count the course as also fulfilling part of the required 5 credits of upper level QM courses.*

5. **Practice and Field Experience**
   - ID 265 [Spring]  Practice of Quantitative Methods  2.5

   *ID 265 is designed to equip the student with the analytical skills necessary to address current problems in public health through lectures, case studies, and student projects. Problems focus on the conceptual, informational, design, and data analysis issues facing the public and private sectors and the increasing demand to quantify, process, and evaluate the effectiveness, quality, and value of disease prevention, health care promotion, and medical care services and technologies.*

   *and*

   - Additional Spring Practice Course  2.5

   *Students choose from a selection of courses relevant to QM in order to provide further practice experience in managing quantitative issues in public health. See list of spring practice course options on next page.*

   *or*

   - Field of Study-Approved Research Project  2.5
### Additional Spring Practice Course Options (2.5 credits minimum):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 212</td>
<td>Survey Research Methods in Community Health</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 214</td>
<td>Principles of Clinical Trials</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 234</td>
<td>Research Synthesis and Meta-Analysis in Public Health and Medicine</td>
<td>2.5</td>
</tr>
<tr>
<td>EPI 233</td>
<td>Research Synthesis and Meta-Analysis</td>
<td>2.5</td>
</tr>
<tr>
<td>HPM 516</td>
<td>Health Care Quality and Safety</td>
<td>2.5</td>
</tr>
<tr>
<td>ID 240</td>
<td>Principles of Injury Control</td>
<td>2.5</td>
</tr>
<tr>
<td>NUT 214</td>
<td>Global Cardiovascular and Metabolic Health: Translating Knowledge into Action</td>
<td>2.5</td>
</tr>
<tr>
<td>RDS 282</td>
<td>Economic Evaluation of Health Policy and Program Mgmt.</td>
<td>2.5</td>
</tr>
<tr>
<td>RDS 285</td>
<td>Decision Analysis Methods in Public Health and Medicine</td>
<td>2.5</td>
</tr>
</tbody>
</table>
SECTION 3: Quantitative Methods – Summer-Only Field of Study Requirements (25 credits)

Summer-only QM students must fulfill the school-wide public health core requirements as noted on page 44. Additionally, summer-only QM students must complete the following field of study-specific requirements:

1. **Introductory Biostatistics**
   - BIO 202 [Summer 1]  Principles of Biostatistics: Part I  2.5
   - BIO 203 [Summer 2]  Principles of Biostatistics: Part II  2.5

2. **Epidemiology**
   - EPI 500 [Summer 1]  Fundamentals of Epidemiology  2.5
   - EPI 202 [Summer 2]  Elements of Epidemiologic Research: Methods II  2.5

3. **Regression** (select from the approved options below):
   - EPI 236 [Summer 1]  Analytical Clinical Epidemiology  5.0
   - or
   - BIO 501 [Summer 2]  Linear and Longitudinal Regression  2.5
   - and
   - BIO 224 [Summer 2]  Survival Methods in Clinical Research  2.5
   - or
   - Other Approved Alternative

4. **Upper Level QM Courses**
   Summer-only QM students are required to take 5 additional credits of intermediate and advanced courses in biostatistics, epidemiology, decision sciences (RDS), or demography. See list on following page.

   *If students use an upper level QM course to fulfill a school-wide core or field of study requirement, they may not double count the course as also fulfilling part of the required 5 credits of upper level QM courses.*

5. **Practice and Field Experience**
   - ID 370 [Winter] or [Summer]  MPH Practicum for QM Summer  5.0

   Summer-only Master of Public Health program students develop an off-site practicum at their home institution under the supervision of a local mentor and a member of the faculty at the Harvard Chan School. This practicum may include aspects of biostatistics, epidemiology, decision sciences, or other quantitative aspects of public health. Students should apply the competencies learned in core courses to an actual investigation. Following the first QM summer coursework, students must submit a written proposal for the practicum along with a letter of support from an investigator from the student’s home site, indicating an agreement to act as the local mentor for the project. This proposal is reviewed and a Harvard Chan faculty supervisor is identified. Students ordinarily would write a paper suitable for publication, a grant proposal, or a technical report. This exercise will culminate with a presentation in the final summer of the student’s program.

   *All students are expected to present their ID 370 project in the third summer of their studies. Students who do not complete all preparatory material by the established deadlines jeopardize completion of the degree.*
**Summer-Only Upper Level QM Courses** (5 credits minimum):

Upper level QM courses for summer-only students include many options, such as those listed below:

**BIOSTATISTICS**
- BIO 214 [Summer 2]  Principles of Clinical Trials  2.5
- BIO 224 [Summer 2]  Survival Methods in Clinical Research  2.5
- BIO 234 [Summer 2]  Research Synthesis and Meta-Analysis in PH and Medicine  2.5
- BIO 501 [Summer 2]  Linear and Longitudinal Regression  2.5

**EPIDEMIOLOGY**
- EPI 210 [Summer 1]  Study Design in Clinical Epidemiology  2.5
- EPI 236 [Summer 1]  Analytical Clinical Epidemiology  5.0
- EPI 253 [Summer 2]  Effectiveness Research w/Longitudinal Health Care Databases  2.5

**RISK AND DECISION SCIENCES**
- RDS 286 [Summer 1]  Decision Analysis in Clinical Research  2.5

**HEALTH POLICY AND MANAGEMENT**
- HPM 276 [Summer 1]  Methods and Applications in Health Services Research  2.5
- HPM 299 [Summer 1]  Research with Large Databases  2.5
- HPM 512 [Summer 2]  Medical Informatics  2.5
- HPM 530 [Summer 1]  Measuring and Analyzing the Outcomes of Health Care  2.5

**OTHER**
- NUT 207 [Summer 1]  Analysis of Country-Level Data  2.5
- SBS 250 [Summer 2]  Research on Social and Behavioral Health  2.5

**Fall Online Course: Option ONLY for Summer-Only QM**
- BIO 213 [Fall]  Applied Regression for Clinical Research  5.0

Note: The online option of BIO 213 is ONLY available to summer-only degree students. Course enrollment is limited.

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**SECTION 4: Electives (10 credits)**

Students are free to choose electives at the Harvard Chan School. Academic year QM students also have the additional option of cross-registering for elective courses at other Harvard Graduate Schools or MIT.

Areas of focus for academic year QM students can include options such as Decision Sciences, Cancer Prevention, Cardiovascular Epidemiology, Infectious Disease, and Nutrition.
### MPH-Quantitative Methods Degree Requirements

#### School-Wide Public Health Core Requirements*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Health Services Administration</td>
<td>2.5</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Total credits</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

*The Biostatistics and Epidemiology cores are included in the Quantitative Methods field of study requirements.

#### Quantitative Methods – Field of Study Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biostatistics</td>
<td>5.0</td>
</tr>
<tr>
<td>Epidemiology</td>
<td>5.0</td>
</tr>
<tr>
<td>Regression Course (see p. 45 for academic year &amp; p. 47 for summer-only)</td>
<td>5.0</td>
</tr>
<tr>
<td>Upper Level QM courses (see p. 45 for academic year &amp; p. 48 for summer-only)</td>
<td>5.0</td>
</tr>
<tr>
<td>Practice and Field Experience (see pp. 45-46 for academic year &amp; p. 47 for summer-only)</td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Total credits</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

#### Electives

|                | Credits **||
|----------------|-----------|
| **Total Requirements** | **45 credits** |

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.**
The Clinical Effectives (CLE) field of study is concerned with 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 analytic and quantitative training necessary to evaluate clinical practices. Major areas of professional interest 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. The field of study is limited to clinicians enrolled initially in the Summer Program in Clinical Effectiveness.

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 physicians 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.

Please note that the Summer Program in Clinical Effectiveness (PCE) has specific admission requirements and deadlines. Local applicants must have a guaranteed position in a clinical department in a Boston teaching hospital. Applicants from outside of Boston must be sponsored by their medical school or teaching hospital. Students enrolling in the Summer Program in Clinical Effectiveness must also apply by the MPH degree application deadline (December 15, 2015) in order to be enrolled in the MPH-CLE degree program through the standard process. Contact the Program in Clinical Effectiveness www.hsph.harvard.edu/clineff: 617-732-5500 x3-2436 or ProgClinEffect@partners.org

Curriculum
The curriculum for the clinical effectiveness field of study consists of introductory courses in clinical epidemiology and biostatistics, which students take during the Summer Program in Clinical Effectiveness; other relevant courses in areas such as epidemiology and biostatistics, health services research, quality improvement, and decision science; and required school-wide core courses in public health. Students also must complete an approved practicum project, which often is an applied research project, and present it to faculty and other students. Students will have some credits available for elective courses.

CLINICAL EFFECTIVENESS DEGREE COMPETENCIES

- Demonstrate competence in the five core disciplines of public health as listed on pages 6-13.
- Demonstrate competence in ethics as listed on page 13.
- Develop, implement, and complete a research project addressing a clinical or public health problem of interest to, and chosen by, the student.
- Develop knowledge and skills for critical thinking on the social and public health context of clinical research.
- Develop the knowledge and skills with biostatistical methods and computer software packages (e.g. SAS) for performing appropriate crude and adjusted analyses of clinical data, including methods for regression analysis.
- Develop the knowledge and skills to design, implement, and evaluate clinical and public health research projects.
- Develop the knowledge for critical thinking on issues regarding current health policy and develop the skills needed to implement quality of care improvement intervention projects.
- Develop applied expertise in medical decision science and/or health services research.
SECTION 1: School-Wide Public Health Core Requirements (10 credits)

(i) Biostatistics and Epidemiology
The Biostatistics and Epidemiology cores are included in the Clinical Effectiveness field of study requirements.

(ii) Environmental Health Sciences 2.5 credits
Select one of the approved options on page 9.

(iii) Health Services Administration 2.5 credits
Select one of the approved options on pages 10-11.

(iv) Social and Behavioral Sciences 2.5 credits
Select one of the approved options on page 12.

(v) Ethics of Public Health Practice 2.5 credits
Select one of the approved options on page 13.
SECTION 2: Clinical Effectiveness – Field of Study Requirements (12.5 – 22.5 credits)

Clinical Effectiveness students must complete the following field of study-specific requirements:

1. **Introductory Biostatistics**
   
   BIO 206 [Summer 1]  Introduction to Statistics for Medical Research  2.5
   
   and
   
   BIO 207 or BIO 208 [Summer 2]  Statistics for Medical Research  2.5

   *Using examples gathered from the clinical literature, these courses address the basic analytical techniques that are commonly used in clinical investigations.*

2. **Epidemiology**
   
   EPI 208 [Summer]  Introduction to Clinical Epidemiology  5.0

   *EPI 208 covers the basic epidemiologic design issues that are relevant to clinical investigation including patient selection, outcome measurement, bias, and confounding.*

3. **Regression (select one of the approved options below)**:
   
   BIO 210 [Fall] or [Spring]  The Analysis of Rates and Proportions  5.0
   
   or
   
   BIO 211 [Fall]  Regression and Analysis of Variance in Experimental Research  5.0
   
   or
   
   BIO 213 [Fall]  Applied Regression for Clinical Research  5.0
   
   or
   
   BIO 501 [Summer 2]  Linear and Longitudinal Regression  2.5
   
   or
   
   EPI 236 [Summer 1]  Analytical Clinical Epidemiology  5.0
   
   or
   
   Other Approved Alternative

   *Required for academic year CLE students and recommended for summer-only CLE students.*

4. **Upper Level CLE Courses**

   **Academic year CLE students are required to take 5 additional credits of upper level CLE courses. See list on following page.**

   **Summer-only CLE students are recommended to take 5 additional credits of upper level CLE courses.**

5. **Practice and Field Experience**

   **Academic Year CLE Students:**

   EPI 242 [2 Semesters, Fall/Spring]  Seminar in Applied Research in Clinical Epidemiology  2.5

   (1.25 credits per semester for a total of 2.5 credits of EPI 242)

   *This practice experience satisfies the culminating experience that is required for all MPH students. The practice experience involves two main components: 1) participating in the weekly seminar course (EPI 242), and 2) working on a project to integrate and apply the skills and competencies learned in coursework to address a clinical/public health problem. Typically, this will involve an applied research project, but it could also pertain to any applied aspect of health care. The purpose of this exercise is to assist the student in addressing a clinical/public health question of interest and to evaluate the student’s ability to address such questions.*

   *Students are required to attend two semesters of this course. In addition, each student should make a presentation of the results of their MPH practicum during this seminar or at another seminar that is approved by the leader of this field of study.*
**Summer-Only CLE:**

Students follow the same requirements as all students in the CLE field of study selecting from Summer Session options. The practice course is the key difference in the program. All summer-only CLE students must take ID 320:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 320 [Summer]</td>
<td>Summer MPH Practicum for CLE</td>
<td>2.5 - 7.5</td>
</tr>
</tbody>
</table>

Summer-only MPH program students develop an off-site practicum at their home institution under the supervision of a local mentor and a member of the faculty at the Harvard Chan School. This practicum may include aspects of biostatistics, epidemiology, decision sciences, or other quantitative aspects of public health. Students should apply the competencies learned in core courses to an actual investigation. Following the first CLE summer coursework, students meet with the director of this program to discuss potential topics for their MPH practicum. Once an appropriate project is identified, the director of this program identifies a Harvard Chan faculty member to be the supervisor of the practicum. Students ordinarily will write a paper suitable for publication, a grant proposal, or a technical report. This exercise will culminate with a presentation typically in the final summer of the student’s program. However, summer-only students can enroll for ID 320 credits and present their MPH practica during any period of the year.

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**Upper Level CLE Courses**

(5 credits minimum required for academic year CLE students; recommended but not required for summer-only CLE students)

Upper level CLE courses are defined as any courses beyond the introductory level that provide students with analytic or quantitative skills for evaluating clinical/public health issues. Suggested options include the courses listed below. This list is not meant to be all-inclusive. Please contact the CLE field of study leader if you have any questions about whether another course may be counted towards this requirement.

Academic year CLE students may request the option of an approved research project as part of their upper level CLE courses (EPI 300), for up to 2.5 credits. An additional 2.5 credits for EPI 300 may be taken as elective credits, if students choose to do so. A maximum of 5 credits are available for independent study (EPI 300) research. All credits designated as independent study (EPI 300) are pass/fail.

Note: Academic year CLE students may enroll in courses in any term: summer, fall, Winter Session, and spring. Summer-only CLE students may only enroll for courses in Summer Session and Winter Session. Summer-only CLE students are not permitted to enroll in courses during the fall or spring semesters.

**BIOSTATISTICS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 214 [Spring 1] or [Summer 2]</td>
<td>Principles of Clinical Trials</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 223 [Spring]</td>
<td>Applied Survival Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO 224 [Summer 2]</td>
<td>Survival Methods in Clinical Research</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 226 [Spring]</td>
<td>Applied Longitudinal Analysis</td>
<td>5.0</td>
</tr>
<tr>
<td>BIO 234 [Summer 2]</td>
<td>Research Synthesis and Meta-Analysis in PH and Medicine</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 501 [Summer 2]*</td>
<td>Linear and Longitudinal Regression</td>
<td>2.5</td>
</tr>
<tr>
<td>BIO 507 [Spring 1]</td>
<td>Intro. to Quantitative Methods for Monitoring and Evaluation</td>
<td>2.5</td>
</tr>
</tbody>
</table>

*If academic year CLE students use BIO 501 to fulfill the regression field of study requirement (see p. 52), they may not double count the course as also fulfilling part of the required 5 credits of upper level CLE courses.*
Upper Level CLE Courses Continued:

**EPIDEMIOLOGY**
- **EPI 202 [Fall 2] or [Summer 2]**: Elements of Epidemiologic Research: Methods II 2.5
- **EPI 203 [Spring 2]**: Study Design in Epidemiologic Research 2.5
- **EPI 204 [Spring 2]**: Analysis of Case-Control, Cohort, & Other Epidemiologic Data 2.5
- **EPI 209 [Winter]**: Epidemiologic Methods for Patient Safety and Quality 1.25
- **EPI 210 [Summer 1]**: Study Design in Clinical Epidemiology 2.5
- **EPI 221 [Fall 1]**: Pharmacoepidemiology 2.5
- **EPI 233 [Spring]**: Research Synthesis and Meta-Analysis 2.5
- **EPI 235 [Spring 1]**: Epi. Methods in Health Services Research 2.5
- **EPI 236 [Summer 1]**: Analytical Clinical Epidemiology 5.0
- **EPI 253 [Summer 2]**: Effectiveness Research with Longitudinal Health Care Databases 2.5
- **EPI 269 [Fall 2]**: Epidemiological Research in Obstetrics and Gynecology 2.5
- **EPI 271 [Winter]**: Propensity Score Analysis: Theoretical and Practical Considerations 1.25
- **EPI 288 [Winter]**: Data Mining and Prediction 2.5
- **EPI 289 [Spring 1]**: Models for Causal Inference 2.5
- **EPI 293 [Winter]**: Analysis of Genetic Association Studies 2.5

*If academic year CLE students use EPI 236 to fulfill the regression field of study requirement (see p. 52), they may not double count the course as also fulfilling the required 5 credits of upper level CLE courses.*

**RISK AND DECISION SCIENCES**
- **RDS 280 [Fall 2]**: Decision Analysis for Health and Medical Practices 2.5
- **RDS 282 [Spring 2]**: Economic Evaluation of Health Policy and Program Mgmt. 2.5
- **RDS 285 [Spring 1]**: Decision Analysis Methods in Public Health and Medicine 2.5
- **RDS 286 [Summer 1]**: Decision Analysis in Clinical Research 2.5
- **RDS 288 [Summer 2]**: Methods for Decision Making in Medicine 2.5

**CLE students may take RDS 280 or RDS 286 to fulfill the Health Services Administration (HSA) core. However, if academic year CLE students take RDS 280 or RDS 286 to fulfill the HSA core, they may not double count the course as also fulfilling part of the required 5 credits of upper level CLE courses.**

**SOCIAL EPIDEMIOLOGY**
- **SBS 263 [Spring]**: Multilevel Statistical Methods: Concept and Application 5.0

**OTHER**
- **HPM 299 [Summer 1]**: Research with Large Databases 2.5
- **ID 214 [Spring]**: Nutritional Epidemiology 2.5
- **NUT 207 [Summer 1]**: Analysis of Country-Level Data 2.5

**Fall Online Course: Option ONLY for Summer-Only CLE**
- **BIO 213 [Fall]**: Applied Regression for Clinical Research 5.0

Note: The online option of BIO 213 is ONLY available to summer-only degree students. Course enrollment is limited.

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**SECTION 3: Electives (12.5 – 22.5 credits)**

Students are free to choose electives from the previous list of upper level CLE courses or from other elective courses at the Harvard Chan School. Academic year CLE students also have the additional option of cross-registering for elective courses at other Harvard Graduate Schools or MIT.
### MPH-Clinical Effectiveness Degree Requirements

<table>
<thead>
<tr>
<th>School-Wide Public Health Core Requirements*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Health Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Health Services Administration</td>
<td>2.5</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>2.5</td>
</tr>
<tr>
<td>Ethics of Public Health Practice</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td><strong>10 credits</strong></td>
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</tbody>
</table>

*The Biostatistics and Epidemiology cores are included in the CLE field of study requirements.

<table>
<thead>
<tr>
<th>Clinical Effectiveness – Academic Year (AY) Field of Study Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biostatistics</td>
</tr>
<tr>
<td>Epidemiology</td>
</tr>
<tr>
<td>Regression course (see p. 52)</td>
</tr>
<tr>
<td>Upper Level CLE courses (see pp. 53-54)</td>
</tr>
<tr>
<td>Practice and Field Experience:</td>
</tr>
<tr>
<td><strong>AY CLE: 20-22.5 credits</strong></td>
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<thead>
<tr>
<th>Clinical Effectiveness – Summer-Only (SO) Field of Study Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Biostatistics</td>
</tr>
<tr>
<td>Epidemiology</td>
</tr>
<tr>
<td>Practice and Field Experience</td>
</tr>
<tr>
<td><strong>SO CLE: 12.5-17.5 credits</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives**</th>
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</thead>
<tbody>
<tr>
<td>AY CLE: 12.5-15 credits</td>
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<tr>
<td>SO CLE: 17.5-22.5 credits</td>
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</table>

<table>
<thead>
<tr>
<th>Total Requirements</th>
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</thead>
<tbody>
<tr>
<td><strong>45 credits</strong></td>
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</table>

**For students who begin their degree program in July 2015 and after: MPH students are required to complete a minimum of 45 credits for the MPH degree program. These students may complete an additional 5 credits during their degree program at no extra charge. However, students who elect to take any or all of the 5 additional credits must use them during their enrollment in the MPH degree program and may not use the additional credits to extend their expected graduation date. Students will be billed on a per credit basis until they have reached the required 45 credits.**
REGISTRATION INFORMATION

ALL STUDENTS

Registration
In order to pre-register or register for classes, students must pay their Harvard Chan School bill in full.3* Students are billed in July for the fall semester and in November for the spring semester. Students whose bills are not paid in a timely fashion will be blocked from pre-registration and registration.

Summer registration is different from fall and spring registration, and degree students interested in taking summer classes must request courses no later than March 1st. Degree students will be contacted in February with an email invitation to participate in the Summer Session.

Fees
A Student Health Insurance Plan (SHIP) fee and a Student Health Fee (SHF) are charged each semester. A one-time academic records fee is charged the first time you register.

Tuition
Students are billed for the number of credits they take each term. Bills will be adjusted if a student changes their course load during add/drop. Be sure to check your bills regularly!

Credits
If adjusting your credit load, you should be sure to check with:

a. Registrar’s Office: regarding health insurance. All students are billed for the Student Health Insurance Plan (SHIP) fee and the Student Health Fee (SHF), regardless of their credit loads. Students may waive the SHIP fee under certain circumstances. Students who are registered for 10 credits or less may request to waive the SHF fee. For any questions regarding fee waiver eligibility, please visit http://hushp.harvard.edu/waive

b. Office of Financial Aid: regarding potential financial aid adjustments (such as federal loans) and billing changes.

c. Office of Education (OED)/MPH Program Office: regarding requirements.

Deadlines
Students are responsible for knowing and meeting all deadlines. The School’s academic calendar is posted on the Registrar’s website. All students are expected to regularly read their Harvard Chan email and to check their school-assigned mailboxes.

Leave of Absence
Students who do not register for any credits in the fall or spring semester MUST apply for a leave of absence or risk being withdrawn from degree candidacy. Students registered for Fall or Fall 1 or Fall 2 are considered registered for fall. Students registered for Winter Session or Spring or Spring 1 or Spring 2 are considered registered for spring. If you are only planning to register for Fall 2 or Spring 2 classes, you must still register for those classes during the first two weeks of the fall or spring term or you risk being withdrawn from degree candidacy.

Summer Registration and Summer-only MPH
Registration guidelines for students enrolled in the summer-only MPH program are addressed separately. Students who complete their programs within one year and adjust their schedules because they have attended the Summer Session or the Program in Clinical Effectiveness should check with the OED/MPH Office regarding guidelines.

FULL-TIME STUDENTS
Full-time students are charged on a per credit basis and must take at least 15 credits per semester. MPH students matriculating in 2015 are required to complete a minimum of 45 credits in a one-year program. Therefore, students are generally advised to register for 22.5 – 25 credits per semester. The initial bills for each term (in July for the fall and November for the spring) will be based on a flat number of credits and will then be adjusted throughout the term based on the student’s registration. In order to pre-register, students must pay for this initial flat amount and any previous balance (if applicable).

PART-TIME STUDENTS
Part-time students in the MPH program typically complete the degree over 2-3 years (maximum of 3 years) and have flexibility in scheduling courses. Part-time students are charged tuition on a per-credit basis and are eligible to take up to 14.75 credits per semester. However, the initial bills for each term (in July for the fall and November for the spring) will be fees only. In order to register, students must pay these fees and any previous balance (if applicable). Tuition charges will be assessed after pre-registration.

INTERNATIONAL STUDENTS
International students who are on a student visa may not be part-time. However, special rules may apply in the very last semester of a student’s degree program. Please check with the Harvard International Office (HIO) and with the Registrar’s Office for these guidelines.

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3*For any questions about student billing, please visit the Student Billing website or contact the Registrar’s Office.
GENERAL POLICY ON WINTER SESSION

All MPH students must follow MPH Winter Session guidelines. Departmental guidelines cannot be substituted. General information on Winter Session can be found at: www.hsph.harvard.edu/admissions/registrar/winter-session

A. In general, full-time MPH students are expected to participate in activities that will enhance the student's academic experience. Because the nature of these experiences is broad, the following are some of the activities that would be appropriate:

- Courses on campus – These may be credit or non-credit courses at the Harvard Chan School or at other Harvard Graduate Schools or MIT
- Online courses (non-credit)
- Domestic or international field study (for-credit or non-credit)
- Independent study (for-credit or non-credit)
- Independent work/research/field study (including practicum related activities)
- Research work (Note: Human Subjects Committee approval may be needed; verify with advisor)
- Site visits relevant to career opportunities
- Volunteer work in the community

B. Every full-time MPH student is required to submit an electronic form describing the nature of the student's Winter Session activities.

C. Any Winter Session courses taken for credit will be added to the student's spring credit totals.

D. Part-time students (those who complete the program in more than one year) are not required to participate in Winter Session activities. Tuition is charged for any courses taken for credit.

E. Summer-only MPH students will be allowed to register for Winter Session courses. Course charges will be the same as for any part-time student.

F. Students who will be traveling abroad should register their trip with the Harvard Travel Registry. Registration is required for all students traveling on trips funded or arranged by Harvard University, and strongly recommended for everyone. To register your travel itinerary, visit www.traveltools.harvard.edu
The Harvard T.H. Chan School of Public Health offers a variety of interdisciplinary or interdepartmental concentrations. These programs offer students the opportunity to obtain an additional focus in a particular area that requires knowledge and skills from several fields. **Please note:** These interdisciplinary concentrations do not replace or substitute for the MPH program and the field of study to which you were admitted. Students wishing to pursue an interdisciplinary concentration should review the requirements of the MPH program and of their designated field of study to determine if the requirements of the interdisciplinary concentration fit the requirements of their MPH program. MPH students may find that they can fulfill some, but not all, of the requirements of an interdisciplinary concentration. Planning an appropriate schedule is the responsibility of each student with guidance from the student’s academic advisor, the interdisciplinary concentration coordinator, and the Office of Education/MPH Program Office.

**Please note:** Students who fulfill an interdisciplinary concentration receive a letter stating that they have completed the requirements for the interdisciplinary concentration. The diploma only states the award of the MPH degree. This concentration does not appear on the student’s diploma or transcript. Overall, students should plan their schedules to gain strong skills and focus on developing strengths in their areas of interest.

### Interdisciplinary Concentration in Public Health Leadership

This interdisciplinary concentration was developed to improve the leadership skills of students in order to meet the public health challenges facing society in the 21st century. The concentration is geared toward students who desire careers in leading and implementing transformative public health initiatives. The curriculum focuses on theories, models, and skills that will enable students to enter or reenter the public health profession and assume positions of responsibility with confidence and authority. Students explore areas of leadership development through coursework, experiential workshops, hands-on experience, and reflection. As the concentration does not offer a degree, prospective students must apply to a degree program in one of the participating departments: Environmental Health, Epidemiology, Global Health and Population, Health Policy and Management, Nutrition, and Social and Behavioral Sciences. Students must fulfill the requirements of the home department, which issues the degree, and the requirements of the concentration, which include the core courses in public health leadership. The concentration is limited to participating departments.

**Contact Information**

Email: PHL@hsph.harvard.edu  
Web: [http://hsph.me/PHL](http://hsph.me/PHL)

### Interdisciplinary Concentration in Humanitarian Studies, Ethics, and Human Rights

Humanitarian emergencies, natural and man-made, have cataclysmic public health implications for communities and especially for the most vulnerable populations. The increasing complexity of humanitarian crises has raised the stakes for providing in-depth and effective training for those who participate in relief and development efforts. This concentration provides an organized program of study that focuses on the normative underpinnings and practice of humanitarian response. The curriculum covers a broad range of areas including human rights, international humanitarian law, civilian protection, disaster response, coordinated aid, crisis dynamics, sector-based assistance, health and human security of internally displaced people, geopolitical context, monitoring and evaluation, strategic planning, situation analysis, and ethics and standards. Upon completion, students are prepared to assume research, leadership, and managerial roles within the humanitarian and human rights community.

**Contact Information**

Email: hah@harvard.edu  
Web: [www.hsph.harvard.edu/husehr](http://www.hsph.harvard.edu/husehr)
Interdisciplinary Concentration in Nutrition and Global Health

The Nutrition and Global Health concentration builds upon a strong base of ongoing research, teaching, collaborative work, and training in nutrition and global health at the Harvard T.H. Chan School of Public Health. The concentration has four participating departments—Nutrition, Global Health and Population, Epidemiology, and Social and Behavioral Sciences—together with the involvement of the François-Xavier Bagnoud Center for Health and Human Rights and the Harvard Humanitarian Initiative. An interdisciplinary approach to teaching and research is taken to explore the effects of nutrition on human and economic development; nutrition in humanitarian crisis situations; and the dynamic interplay between epidemiologic, nutritional, and demographic transitions around the globe. The concentration is dedicated to research that stresses integrative problem solving and evaluation approaches to global health challenges, with a focus on low- and middle-income countries.

Contact: Makenzie Keene
Email: mkeene@hsph.harvard.edu
Web: www.hsph.harvard.edu/nutrition-and-global-health

Interdisciplinary Concentration in Women, Gender, and Health

This interdisciplinary concentration is geared toward students who desire careers in research, teaching, and programs related to women, gender, and health. Addressing issues of women, gender, and health (WGH) requires the study of the health of women and girls — and men and boys — throughout the life course; gender, gender equality, and biology must be understood as important and interacting determinants of well-being and disease. Areas of study also include gender and gender inequality in relation to individuals’ treatment by and participation in health and medical care systems; the physical, economic, and social conditions in which individuals live; and their ability to promote the health of their families, their communities, and themselves. Inherent in these studies is the protection of human rights as fundamental to health and the recognition of diversity and inequality among women — and men — in relation to race/ethnicity, nationality, class, sexuality, and age. As the concentration does not offer a degree, prospective students must apply to a degree program in one of the participating departments. Students must fulfill the requirements of the home department, which issues the degree, and the requirements of the concentration, which include core courses in women, gender, and health; gender analysis; and women’s health.

Contact: Dr. Brittany Charlton
Email: wgh@hsph.harvard.edu
Web: www.hsph.harvard.edu/wgh

Interdisciplinary Concentration in Maternal and Child Health/Children, Youth, and Families

The goal of this concentration is to improve the health of children and their families through educating leaders in maternal and child health/children, youth, and families (MCH/CYF). This interdepartmental concentration is geared toward students who desire careers in public health programs for children and their families, and those interested in research and/or teaching in this area. The curriculum focuses on the health problems of the target population, programmatic and policy responses, appropriate research techniques, and specific leadership skills in courses in the four participating departments: Social and Behavioral Sciences, Global Health and Population, Nutrition, and Epidemiology. The MCH/CYF concentration consists of four areas of study: human development and disparities in health, child rights and global health, physical growth and nutrition, and characterization of the health problems of children and their families. As the concentration does not offer a degree, prospective students must apply to a department-based degree program and must complete the requirements for both the academic program and the concentration. The number of required credits for the concentration ranges from 7.5 to 10, depending on the student’s degree program.

Contact: Trish Lavoie
Email: tlavoie@hsph.harvard.edu
Web: www.hsph.harvard.edu/mch-cyf-concentration
Interdisciplinary Concentration in Epidemiology of Infectious Disease

This interdisciplinary concentration has a well-established multidisciplinary approach, with a transdepartmental foundation for education and research that includes the Departments of Biostatistics, Epidemiology, Global Health and Population, Health Policy and Management, and Immunology and Infectious Diseases. These departments participate in the interdisciplinary concentration in the epidemiology of infectious disease, which focuses on population studies incorporating both epidemiologic and laboratory methods of addressing global infectious disease. This concentration is intended to provide training for those students who desire careers in research and teaching in infectious disease. As the concentration is a non-degree program, prospective students must apply to a program in one of the participating departments, which will issue the degree. Upon matriculation, students may elect to participate in this concentration. Students are responsible for fulfilling the requirements of the academic program within the home department in addition to the requirements of the concentration. Students who complete the required 15 credits receive a letter of completion.

Contact Information
Email: IDEPI@hsph.harvard.edu
Web: www.hsph.harvard.edu/idepi

Departmental Concentration in Health Communication

The Health Communication Concentration (HCC) is a concentration housed within the Department of Social and Behavioral Sciences. HCC welcomes MPH students from other fields of study. HCC prepares students who are interested in health communication to apply rigorous, theory-based research and methods to health and risk communication and to apply and evaluate health communication technologies.

Through coursework and practical experience, HCC provides a rich mix of conceptual, analytical, and applied competencies to understand the role of mass media institutions in public health, to be a critical consumer of health communication literature, and to obtain skills in using communication to promote public health policy and practice.

Contact: Hana Hayashi
Email: hah125@mail.harvard.edu
Website: www.hsph.harvard.edu/health-communication
There are numerous seminars and opportunities to learn more about particular areas of interest. Listed here are a few held at the Harvard T.H. Chan School of Public Health.

**HARVARD INJURY CONTROL RESEARCH CENTER SEMINAR SERIES**

Harvard Injury Control Research Center sends out announcements regarding their seminar series which takes place from 12:30-1:30 PM. For additional information on the seminar series, please visit: [www.hsph.harvard.edu/research/hicrc/seminar-series](http://www.hsph.harvard.edu/research/hicrc/seminar-series)

**To subscribe:** Send a request via email, including your name and email address to: hicrc@hsph.harvard.edu

**HPM RESEARCH SEMINARS**

The Department of Health Policy and Management (HPM) hosts a regular seminar series highlighting HPM faculty research. For seminar dates, please take notice of postings around the School and emails to the MPH-HM and MPH-HP student listservs. For more information, please contact Liz Nolan at enolan@hsph.harvard.edu

**EPI SEMINAR SERIES**

The Department of Epidemiology presents a lunchtime Epi Seminar Series throughout the academic year, covering a different concentration area within epidemiology and public health. All seminars are open to the public and take place on Wednesdays from 12:30-1:30 PM in Kresge 502 unless otherwise stated. Please contact Coppelia Liebenthal at cliebent@hsph.harvard.edu for more information.

**GLOBAL CHAT**

For information on Global Chat, an interesting and interactive health forum held every Wednesday from 12:30-1:30 PM, please take notice of postings around the School and check the daily student news email.

**GLOBAL HEALTH AND POPULATION BROWN BAG SEMINAR SERIES**

The Department of Global Health and Population (GHP) presents a weekly lunchtime seminar on Thursdays. This series features current research of members and affiliates of the department. The intent is to both educate and raise the awareness of the GHP community and beyond about the research activities presently being conducted by faculty, students, researchers, and special guests of the department. This seminar series, open to the full Harvard Chan School community, will provide an opportunity for discussion and intellectual exchange. Please take notice of postings around the School and check the GHP website and the master calendar for dates.

**OCCUPATIONAL AND ENVIRONMENTAL HEALTH SEMINARS**

For information on the Environmental and Occupational Medicine and Epidemiology Program Seminar Series, please contact Ann Backus at abackus@hsph.harvard.edu. All seminars take place 12:30-1:20 PM on Mondays (once a month or more) and every Friday.
MATERNAL & CHILD HEALTH/ CHILDREN, YOUTH, & FAMILIES SEMINARS

Maternal and Child Health/ Children, Youth, and Families (MCH/CYF) Seminars (SBS 360) are held Wednesdays from 12:30-1:30 PM and discuss topics of importance related to MCH and CYF. Please contact Trish Lavoie tlavoie@hsph.harvard.edu for more information.

MATERNAL AND CHILD HEALTH LIBRARY

For students interested in maternal and child health, the following site is recommended: www.mchlibrary.info

WOMEN, GENDER, AND HEALTH

The Women, Gender, and Health (WGH) interdisciplinary concentration hosts monthly meetings and events. The Steering Committee – comprised of faculty, staff, post-doctoral fellows, and students – meets monthly. Everyone is invited to attend and a light lunch is served. In addition to discussing the administrative aspects of the concentration, there is also a pedagogical component. Students are encouraged to chair and facilitate the meetings, participate in all decisions needed for WGH, present on a topic of choice or one’s own research, discuss conference or independent study experiences, and meet others who share interests. Other WGH events happen monthly and generally feature a speaker/facilitator who introduces a gender-related topic of interest, followed by an engaging small-group discussion. WGH speaker events bring speakers who address a wide variety of gender-related public health research and practice issues in a small-group or larger seminar setting. All are welcome at speaker events, and meals are provided.

For additional information about WGH program activities throughout the year, please visit: www.hsph.harvard.edu/wgh

For any questions regarding the WGH interdisciplinary concentration for MPH students, please contact: wgh@hsph.harvard.edu

JOHN F. KENNEDY JR. FORUM: HARVARD’S INSTITUTE OF POLITICS

The John F. Kennedy Jr. Forum at the Institute of Politics is Harvard’s premier arena for political speech, discussion and debate. The Forum regularly hosts heads of state, leaders in politics, government, business, labor and the media. For more information, please visit: forum.iop.harvard.edu
Harvard Chan students may petition, pending available space, to cross-register for elective courses. The Harvard University Cross-Registration Consortium includes the Harvard Faculties, Massachusetts Institute of Technology (MIT), Tufts Fletcher School of Law and Diplomacy and Friedman School of Nutrition Science and Policy. The cross-registration webpage on the Registrar’s website has information on process and guidelines: [www.hsph.harvard.edu/registrar/cross-registration-2](http://www.hsph.harvard.edu/registrar/cross-registration-2)

To view course offerings across the university, please visit the Harvard University-Wide Course Catalog: [https://coursecatalog.harvard.edu](https://coursecatalog.harvard.edu)

(Please note that the Registrar’s Office at the Harvard Chan School strongly discourages May graduates from cross-registering into a course at MIT during the spring semester because MIT does not submit their grades until after the Harvard Chan School Commencement.)

A sampling of elective courses that may be of interest to Harvard Chan students are grouped by areas of focus below. This list provides a sampling of courses only and is not meant to be all-inclusive. To see the full selection of course offerings across the university, please review the Harvard University-Wide Course Catalog as noted above.

### Behavioral Economics
- **HBS 2230 [Winter]** Managing Global Health: Applying Behavioral Principles

### Economics
- **API 303 [Spring]** Game Theory and Strategic Decisions
- **BGP 200 [Fall]** Strategy, Competition, and Regulation
- **MIT 14.003 [Fall]** Microeconomics of Public Policy
- **SUP 572 [Spring]** Economics of Health Care Policy

### Entrepreneurship
- **GSE A608 [Fall]** Leadership, Entrepreneurship, and Learning
- **HBS 1665 [Spring]** Building Life Science Businesses
- **HST 921 [Spring]** Enabling Technology Innovation in Health Care and the Life Sciences
- **MLD 829MB [Spring]** Entrepreneurial Finance

### Finance
- **API 141 [Fall]** Finance
- **HBS 6908 [Winter]** Field Course: Impact Investing and Social Commercial Models
- **MLD 410 [Spring]** State and Local Finance
- **MLD 829MB [Spring]** Entrepreneurial Finance

### General
- **GSE A111P [Fall]** Public Narrative: Self, Us, Now
- **BGP 100 [Fall]** The Business-Government Relationship in the United States
- **HBS 2107 [Fall]** Commercializing Science: Technology Strategy and Business Models for Science-Based Enterprises
- **HST S14 [Spring]** Data Driven Healthcare: Revolutionizing Medicine and Public Health with Big Data
- **HST 936 [Spring]** Global Health Informatics to Improve Quality of Care
- **HISTSCI 149v [Spring]** Explaining Epidemics
- **MIT 15136 [Fall]** Principles and Practice of Drug Development
- **MIT 15.915 [Spring]** Laboratory for Sustainable Business
- **MLD 102 [Fall]** Getting Things Done: Management in Developing Context
- **SES 0547600 [Fall]** Housing Delivery Systems in the United States

### General: Writing
- **DPI 820MA [Fall 1]** Policy Writing for Decision Makers
- **DPI 810MB [Fall 2]** Introduction to Writing for Policy and Politics
- **DPI 810MA [Fall 1]** Introduction to Writing for Policy and Politics
- **DPI 820MB [Fall 2]** Policy Writing for Decision Makers
### CROSS-REGISTRATION

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<thead>
<tr>
<th><strong>Innovation</strong></th>
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<tbody>
<tr>
<td>HBS 2134 [Fall]</td>
<td>Digital Innovation and Transformation</td>
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<tr>
<td>HBS 2180 [Fall]</td>
<td>Innovating in Health Care</td>
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<tr>
<td>HBS 6025 [Winter]</td>
<td>Health Care in China: Opportunities in Innovation and Integration</td>
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<tr>
<th><strong>Leadership</strong></th>
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<tbody>
<tr>
<td>GSE A608 [Fall]</td>
<td>Leadership, Entrepreneurship, and Learning</td>
<td>Leading and Governing High-Performing Nonprofit Organizations</td>
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<tr>
<td>LGN 5280 [Fall]</td>
<td></td>
<td>Managing High-Performing Nonprofit Organizations</td>
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<tr>
<td>MLD 324 [Fall 2]</td>
<td>Women and Leadership</td>
<td>Becoming a Leader</td>
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<tr>
<td>MLD 325 [Fall]</td>
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<td>Performance Leadership: Producing Results in Public and Nonprofit Agencies</td>
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<td>MLD 602 [Spring]</td>
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<th><strong>Marketing</strong></th>
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<td>MIT 15.810 [Fall]</td>
<td>Marketing Management</td>
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<th><strong>Operations</strong></th>
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<tr>
<td>MLD 601 [Fall]</td>
<td>Operations Management</td>
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<th><strong>Organizational Behavior</strong></th>
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<tr>
<td>HBS 2060 [Winter]</td>
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<th><strong>Power and Influence</strong></th>
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<td>DPI 659 [Fall]</td>
<td>Media, Politics, Power in the Digital Age</td>
<td>Persuasion: The Science and Art of Effective Influence</td>
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<td>MLD 342 [Winter]</td>
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<th><strong>Program Evaluation</strong></th>
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<th><strong>Quantitative Methods</strong></th>
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<tr>
<td>API 302 [Fall]</td>
<td>Analytical Frameworks for Policy</td>
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<tr>
<td>GSE S030 [Spring]</td>
<td>Intermediate Statistics: Applied Regression and Data Analysis</td>
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<td>GSE S052 [Spring]</td>
<td>Applied Data Analysis</td>
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<tr>
<td>124780 [Spring]</td>
<td>Govt. 2001: Advanced Quantitative Research Methodology</td>
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<th><strong>Social Entrepreneurship</strong></th>
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<tr>
<td>HBS 1908 [Winter]</td>
<td>Business at the Base of the Pyramid</td>
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<tr>
<td>HBS 6970 [Fall]</td>
<td>Social Entrepreneurship in the Business Sector</td>
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<thead>
<tr>
<th><strong>Strategy</strong></th>
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<tbody>
<tr>
<td>API 303 [Spring]</td>
<td>Game Theory and Strategic Decisions</td>
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<tr>
<td>BGP 200 [Fall]</td>
<td>Strategy, Competition, and Regulation</td>
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<td>HBS 1263 [Fall]</td>
<td>Executing Strategy</td>
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<td>HBS 1286 [Fall]</td>
<td>Strategy and Technology</td>
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<tr>
<td>HBS 1373 [Fall]</td>
<td>Designing Winning Organizations</td>
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<td>HBS 1534 [Winter]</td>
<td>Global Strategic Management</td>
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<tr>
<td>HBS 1760 [Fall]</td>
<td>The Online Economy: Strategy and Entrepreneurship</td>
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<tr>
<td>MIT 15.363 [Spring]</td>
<td>Strategic Decision Making in the Life Sciences</td>
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<tr>
<td>MLD 222MA [Fall 1]</td>
<td>Negotiation Analysis</td>
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**Key:**
- API – Harvard Kennedy School (Analysis of Policies and Institutions)
- BGP – Harvard Kennedy School (Business and Government Policy)
- DPI – Harvard Kennedy School (Democracy, Politics, and Institutions)
- GSE – Harvard Graduate School of Education
- HBS – Harvard Business School
- HISTSCI – Harvard Faculty of Arts and Sciences
- HST – Massachusetts Institute of Technology (Health Sciences and Technology)
- MIT – Massachusetts Institute of Technology
- MLD – Harvard Kennedy School (Management, Leadership, and Decision Sciences)
- SES – Harvard Graduate School of Design
- SUP – Harvard Kennedy School (Social and Urban Policy)
Academic Calendar 2015-2016

**Summer:**  July 1 – August 14  
  Summer 1:  July 1 – July 24  
  Summer 2:  July 27 – August 14

**Fall:**  September 2 – December 18  
  Fall 1:  September 2 – October 23  
  Fall 2:  October 26 – December 18

**Winter Session:**  January 4 – January 22

**Spring:**  January 25 – May 13  
  Spring 1:  January 25 – March 11  
  Spring 2:  March 21 – May 13

**Commencement:**  May 26, 2016

Please check the academic calendar online for a complete listing, including School holidays, add/drop and pass/fail deadlines:  
www.hsph.harvard.edu/registrar/academic-calendar

*Students are expected to observe all deadlines.*