

# HARVARD SCHOOL OF PUBLIC HEALTH

## MASTER OF PUBLIC HEALTH PROGRAM



### Basic Curriculum

2007 - 2008



Enclosed is information about the MPH Program. Students must select one of seven concentrations to focus their studies and to gain depth in particular areas of interest. This guide includes the basic requirements for the MPH degree, the required core courses, and some preliminary recommendations and suggestions for courses relevant to the concentration. Descriptions of courses listed here as well as a full list of courses available at the School can be found online at [www.hsph.harvard.edu/registrar](http://www.hsph.harvard.edu/registrar)

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## OVERVIEW

The overall objectives of the MPH program are as follows:

- (i) to provide training in public health to qualified health professionals and to other individuals whose prior training and experience has made them capable of playing 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 concentrations. In addition to the common core curriculum, each concentration offers specialty electives and a selection of areas of interest, allowing students to explore in depth one or more spheres of particular relevance to their career goals.

We encourage you to carefully review the concentration requirements and consult with faculty advisors to choose elective courses that are best suited to your needs. There are similarities across the concentrations, 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 geared toward your professional interests.

# MASTER OF PUBLIC HEALTH PROGRAM 2007-2008

## General MPH Guidelines

In order to complete the MPH program, housed in the Office for Educational Programs (OEP), all students must fulfill the following requirements regardless of their concentration:

1. 42.5 credits minimum
  2. 30 credits minimum, graded ordinarily (A,B,C)
  3. 12.5 credits or more may be taken Pass/Fail as long as the student has 30 ordinal credits. Some core and concentration requirements may be included in the credits taken Pass/Fail. (Please check with MPH Office for specifics).
  4. Successfully complete all courses required by your particular concentration
  5. Cumulative grade point average of at least 2.7
- While HSPH 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 must fulfill the 42.5 credit minimum at HSPH in order to graduate. Please contact the MPH Office for specific information about waivers.
  - Preventive Medicine: Students preparing for Board Certification in Preventive Medicine should check with the OEP regarding requirements. Additional information can be found on the American Board of Preventive Medicine (ABPM) website: [www.abprevmed.org](http://www.abprevmed.org)
  - Advising: Assignment of student advisors is guided by the student's interests. Students may request a change of advisor and should contact the MPH Office with any advising concerns. In addition, students have access to a variety of resources for advising about their academic programs. Faculty advisors, concentration leaders, other faculty with particular areas of expertise, and administrative advisors are valuable in guiding specific interests and issues. Students should check with the MPH Office for questions related to core courses.
  - Graduation: Completion of core requirements for the MPH is monitored by the Office for Educational Programs (OEP, Kresge G29). This office has the most current information on requirements, options, and course alternatives. In addition to meeting with your faculty advisors, please check with OEP to be sure your planned curriculum choices meet all MPH requirements. This office also has information about options that previous students have selected.
  - All graduating MPH students receive a Master of Public Health degree regardless of concentration.

## **CORE REQUIREMENTS**

MPH core requirements are established 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 in North America. Courses required to fulfill the core may vary for each concentration. Students are responsible for reviewing the specific guidelines for their chosen concentration and the options listed in this booklet.

## **CONCENTRATIONS**

A concentration provides students with a focus during an intense year of study. In addition to the basic core, a concentration 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 concentration and the MPH degree.

## **REQUIRED AND RECOMMENDED COURSES WITHIN A CONCENTRATION**

MPH students are strongly encouraged to take a sufficient number of courses within their chosen concentration 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 CONCENTRATION REQUIREMENTS**

The courses at HSPH 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](http://www.hsph.harvard.edu/registrar/courses). HSPH students with particular interests also have the opportunity to select courses at any of the other Harvard graduate schools, MIT, or the Fletcher School of Law and Diplomacy at Tufts University. For courses available at other Harvard Schools, please refer to <http://crossreg.harvard.edu>. Students are responsible for reviewing and confirming cross-registered course options 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 concentration leader, students should consult the recommendations established by their concentration and develop a careful plan by reviewing the course descriptions provided by the Registrar. Please note: Some courses are only offered alternate years.

**CONCENTRATION CHANGES** Students considering a change of concentration must contact the Office for Educational Programs /MPH Office **within the first 2 weeks of the academic year** to ensure fulfillment of all requirements.

## 2007-2008 REGISTRATION INFORMATION FOR MPH STUDENTS

### **ALL STUDENTS**

#### **Registration**

In order to pre-register or register for classes, students must pay their HSPH bill. 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 registration. Summer registration is different from Fall and Spring registration, and degree students interested in taking summer classes must request courses no later than April 1. Registration forms are available in the Summer Session brochure.

#### **Fees**

A registration fee, a Blue Cross/Blue Shield (BC/BS) fee, and a University Health Service (UHS) fee 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 drop/add. 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 BC/BS and the University Health Services fee, regardless of their credit loads. Students may waive BC/BS under certain circumstances. Students who are registered for 10 credits or less may request to waive the UHS fee.
- b. Student Financial Services: regarding potential financial aid adjustments (such as federal loans) and billing changes.
- c. MPH Program Office: regarding requirements.

#### **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 WinterSession 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.

#### **Deadlines**

Students are responsible for knowing and meeting all deadlines. The School's Academic Calendar is posted on the Registrar's Office website. All students are expected to read their HSPH email regularly and to check their school-assigned mailboxes.

#### **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 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 are required to complete a minimum of 42.5 credits in a one-year program. Therefore, students are generally advised to register for 20 – 25 credits per semester. The initial bills for each term (in July for the Fall and November for the Spring) will be based on 20 credits. In order to register, students must pay for 20 credits 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 15 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 HSPH Registrar's Office for these guidelines.



# CORE REQUIREMENTS



## *ALL CONCENTRATIONS*

**2007-2008**

### **Overview**

This section contains the basic core requirements for all concentrations. Please be sure to check the section relevant to your concentration to determine if there are specific courses that your concentration has listed to fulfill a particular core. The concentration abbreviation is noted in parentheses if there are specific courses required to fulfill this core.

**For ANY QUESTIONS regarding Core Requirements, check with the MPH Program Office/Office for Educational Programs, Kresge G29.**

In general, at least one course under each core heading is required for each concentration. The course may be 2.5 or 5 credits. Please review the options and the specific concentration variations, particularly those where more than one course is required to fulfill that core requirement.

Students may take up to 25 credits in a given semester. The semester is divided into two segments, 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 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 January "WinterSession" courses are listed under the Spring semester schedule and also under the "WinterSession" schedule. Credits for "WinterSession" courses are counted in the Spring total. The Summer Session includes the "Summer 1" and "Summer 2" periods. Please check with the Office for Educational Programs to ensure you are completing necessary core requirements.

Course length does not necessarily determine course credit or vice versa. Courses that are 2.5 credits may span one or both periods of a semester, depending on the number of times the course meets per week. For example, EPI 200 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 5 days per week during Summer 1 or Summer 2.

**The official course schedule and the complete school calendar can be found on-line at [www.hsph.harvard.edu/registrar](http://www.hsph.harvard.edu/registrar). Please be sure to check the calendar for all deadlines, holidays, etc.**

**CORE REQUIREMENTS: ALL CONCENTRATIONS**

**(i) Ethics of Public Health Practice:**  
**Minimum 2.5 credits**

ID 250 [Fall 2] or [Spring 1] or ID 251 [Summer 1]	Ethical Basis of the Practice of Public Health	2.5
or ID 292 [Spring 2] or ID 513 [Spring 1] or PIH 293 [Fall 1]	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5
	Justice and Resource Allocation	2.5
	Ethics and Health Disparities	2.5
	Individual and Social Responsibility for Health	2.5

**(ii) Practice and Culminating Experience:**  
**2.5 to 5.0 credits - see concentrations**

*“Each professional degree program shall assure that each student: (a) develops an understanding of the areas of knowledge which are basic to public health, (b) acquires skills and experience in the application of basic public health concepts and of specialty knowledge to the solution of community health problems, and (c) demonstrates integration of knowledge through a culminating experience.”*

Each concentration requires an identified practice (often listed as ID = Interdepartmental) or seminar course to complete this requirement. The culminating experience is typically a component of the practice course. Each concentration has guidelines regarding the requirements for the practice and culminating experience.

**(iii) Biostatistics:**  
**Minimum 5.0 credits**

*“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.”*

BIO 200 [Fall] (FCH, CMP, IH, LPH, OEH) or BIO 201 [Fall] (QM) or BIO 206 (CLE) and BIO 207 or BIO 208 or BIO 209 (CLE) or *BIO 202 [Summer 1] and BIO 203 [Summer 2]	Principles of Biostatistics	5.0
	Introduction to Statistical Methods	5.0
	Introduction to Statistics for Medical Research	} 5.0
	Statistics for Medical Research II	
	Statistics for Medical Research, Advanced Statistics for Medical Research, Translational	
	Principles of Biostatistics I and II	5.0

**The Biostatistics core varies by concentration. Be sure to check the requirements for your concentration.**

*\*Students may use BIO 202 and 203 [Summer] in place of BIO 200 [Fall] or BIO 201 [Fall].*

**(iv) Epidemiology:**  
**Minimum 2.5 credits**

*“Distributions and determinants of disease, disability and death in human populations and the natural history of disease and the biological basis of health.”*

EPI 200 [Fall 1] or EPI 500 [Summer 1] or EPI 201 [Fall 1] (QM) or EPI 208 [Summer] (CLE)	Principles of Epidemiology Fundamentals of Epidemiology Introduction to Epidemiology Introduction to Clinical Epidemiology	2.5 2.5 2.5 5.0
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**(v) Environmental Health Sciences:**  
**Minimum 2.5 credits**

*“Environmental factors, including biological, physical and chemical factors, which affect the health of a community.”*

EH 201 [Fall 2] or [Summer 2] or EH 202 [Spring 2] or ID 215 [Spring] or [Summer 1]	Introduction to Environmental Health Principles of Environmental Health Environmental and Occupational Epidemiology	2.5 2.5 2.5
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**Other Approved Options:**

EH 232 [Spring]	Intro. to Occupational and Environmental Medicine	2.5
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**(vi) Health Services Administration:**  
**Minimum 2.5 credits**

*“Planning, organization, administration, management, evaluation and policy analysis of health programs.”*

The CMP concentration requires specific courses to fulfill this core. Students in other concentrations may select from these courses or from choices indicated here. Carefully review the selections and be sure to consult with your advisor, the concentration leader, and the MPH/OEP Office for ANY questions you may have about this core.

HPM courses that fulfill the health services administration requirement:

- Should provide a framework (or frameworks) that can be used in other courses and in the professional workplace.
- Should not focus solely on research methods.
- Should provide breadth rather than narrow, sub-disciplinary scope.

Approved courses should help the student develop an appreciation for one or more of the following areas:

- Health economics
- Policy
- Health care management

**(vi) Health Services Administration (continued):**

**CMP Concentrators Core Requirements (5 credits):**

HPM 205 [Fall] <i>or</i>	Economic Analysis for Public Health	5.0	} <i>Policy Focus</i>
HPM 206 [Fall] <i>or</i>	Economic Analysis	5.0	
HPM 219 [Fall 1] <i>and</i>	Financial Transactions and Analysis	2.5	} <i>Management Focus</i>
HPM 220 [Fall 2]	Financial Management and Control	2.5	

**LPH Concentrators ONLY: Recommended Core Requirements**

HPM 205 [Fall] <i>or</i>	Economic Analysis for Public Health	5.0
HPM 206 [Fall] <i>or</i>	Economic Analysis	5.0
HPM 209 [Summer 2] <i>or</i>	Economics for Health Policy	2.5

Options listed below (*except EH 231, RDS 280, or RDS 286*).

**Non-CMP concentrators ONLY: Additional Courses Fulfilling the Core Requirement**

***The following options offer a broad overview:***

PIH 211 [Fall 2]	Management Control in Health Organizations	2.5
PIH 244 [Spring 2]	Health Sector Reform: A Worldwide Perspective	2.5
PIH 269 [Spring 1]	Applied Politics and Economics I: Political Economy of Intl Hlth	2.5
HPM 228 [Fall 2]	Intro to New American Health Care System: Law, Policy, Mgt.	2.5
HPM 247 [Spring]	Political Analysis and Strategy for US Health Policy	5.0
HPM 277 [Summer 1]	Current Issues in Health Policy	2.5
HPM 510 [Summer 1]	Introduction to Management of Health Care Organizations	2.5
ID 242 [Spring 1]	Politics and Strategies for Change in Health Policy	2.5

***The following options are narrower in scope and useful to students with prior training in management:***

HPM 230 [Spring 2]	Managing People in Health Care Organizations	2.5
HPM 232 [Spring 1]	Operations Management in Service Delivery Organizations	2.5
HPM 235 [Fall 2]	Managed Care Policy Issues	2.5
HPM 253 [Summer 2]	Improving Quality in Health Care	2.5
HPM 516 [Spring 2]	Health Care: Quality Improvement	2.5
EH 231 [Spring]	Occupational Health Policy and Administration	2.5

**(vi) Health Services Administration (continued):**

**CLE or QM Concentrators ONLY: Courses Fulfilling the Core Requirement**

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

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**(vii) Social and Behavioral Sciences:**

***Minimum 2.5 credits***

*“Concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems.”*

**Primary courses taken to fulfill core requirement:**

SHH 201 [Fall 1] or [Summer 1] or SHH 281 [Fall 2]	Society and Health  Methods for Research on Social and Behavioral Dimensions of Public Health	2.5  2.5
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*Approved courses should explicitly address the social and behavioral roots of problems to understand their nature and/or to design appropriate interventions.*

**Other Approved Options (2007-2008):**

ID 283 [Spring 2]	Epi Investigation of Soc. and Env. Risks for Psychiatric Disorders	2.5
ID 521 [Spring 1]	Developmental Epidemiology of Adult Psychiatric Disorders	2.5
PIH 504 [Spring 1]	Applied Qualitative Methods for International Health Research	2.5
SHH 207 [Spring 2]	Race, Ethnicity & Health: Perspectives from Soc. & Behav. Sciences	2.5
SHH 215 [Fall]	History, Politics & Public Hlth: Theories of Disease Distribution	5.0
SHH 220 [Spring 1]	Society and its Effects on Child Health	2.5
SHH 253 [Spring 2]	Stress and Health	2.5
SHH 265 [Fall 2]	Program Planning: Design and Evaluation	2.5
SHH 278 [Fall 2]	Society, Human Development and Public Health	2.5
SHH 293 [Spring 2]	Place, Migration, and Health	2.5
WGH 200 [Spring 1]	Women, Gender and Health	2.5
WGH 211 [Fall 1]	Women, Gender and Health: Introductory Perspectives	2.5

## MPH Concentration Requirements 2007-2008

### QUICK REFERENCE GUIDE

	FCH	CMP	IH	LPH	OEH	QM	CLE
<b>(i) Ethics</b>	ID 250 [Fall 2] or [Spring 1] Ethical Basis of the Practice of Public Health <b>or</b>		ID 251 [Summer 1] Ethical Basis of the Practice of Public Health: Health Care Delivery	ID 292 [Spring 2] Justice and Resource Allocation	ID 513 [Spring 1] Ethics & Health Disparities <b>or</b>	PIH 293 [Fall 1] Individual & Social Responsibility for Health	
<b>(ii) Practice</b>	ID 506 Theory and Practice of Public Health in the US <b>and</b> ID 264 Practice of Family and Community Health	ID 261 Practice of Health Care Management & Policy	ID 262 Intro to the Practice of International Health <b>and</b> ID 519 Culminating Experience MPH-IH Thesis	ID 261 Practice of Health Care Management & Policy	ID 263 Practice of Occupational Health	ID 265 Practice of Quantitative Methods <b>and</b> Add'l [Spring] practice option  <u>Summer Only:</u> ID 270	EPI 242 Seminar in Applied Research in Clinical Epidemiology (2 semesters)  <u>Summer Only:</u> ID 320
<b>(iii) Biostatistics</b>	BIO 200 Principles of Biostatistics	BIO 200 Principles of Biostatistics	BIO 200 Principles of Biostatistics	BIO 200 Principles of Biostatistics	BIO 200** Principles of Biostatistics <b>or</b> BIO 201 Introduction to Statistical Methods	BIO 201 Introduction to Statistical Methods	BIO 206 Introductory Statistics for Medical Research <b>and</b> BIO 207 or BIO 208 or BIO 209
ALL: Options may include BIO 202 and BIO 203 <b>or</b> BIO 201 (with Calculus background) **OEM Residents: See Summer Requirements							
<b>(iv) Epidemiology</b>	EPI 200 Principles of Epidemiology <b>or</b>	EPI 201 Introduction to Epidemiology <b>or</b>	EPI 500 Fundamentals of Epidemiology	EPI 201 Introduction to Epidemiology <b>or</b> EPI 500		EPI 208 Intro to Clinical Epidemiology	
<b>Note:</b> Students wishing to take EPI 202 must select EPI 201 or EPI 500							

## MPH Concentration Requirements 2007-2008

	FCH	CMP	IH	LPH	OEH	QM	CLE
<b>(v) Environmental Health Sciences</b>	EH 201 Introduction to Environmental Health <u>or</u> EH 202 Principles of Environmental Health <u>or</u> See Options ( Page 8)				See Options (Page 33)	EH 201 Introduction to Environmental Health <u>or</u> EH 202 Principles of Environmental Health <u>or</u> See Options ( Page 8)	
<b>(vi) Health Services Administration</b>	See Options (Pages 8 & 9)	HPM 219 Financial Transactions & Analysis <u>and</u> HPM 220 Financial Management & Control <u>or</u> HPM 205 Economic Analysis for Public Health <u>or</u> HPM 206 Economic Analysis	ID 272 Financing Health Care in Developing Countries <u>or</u> PIH 211 Management Control in Health Organizations <u>or</u> PIH 244 Health Sector Reform <u>or</u> PIH 269 Applied Politics and Economics	HPM 205 Economic Analysis for Public Health <u>or</u> HPM 206 Economic Analysis <u>or</u> HPM 209 Economic of Health Policy <u>or</u> See Options (Pages 8 & 9)	See Options (Page 33)	See Options (Page 8 - 10)	See Options (Page 8 - 10)
<b>(vii) Social and Behavioral Sciences</b>	SHH 201 <u>or</u> SHH 281 <u>or</u> See Options (Page 10)						
<b>(vii) Summer Session</b>	A list of Summer Session courses fulfilling MPH core requirements follows. Only Clinical Effectiveness students are required to attend a summer program.						



## SUMMER SESSION AND PROGRAM IN CLINICAL EFFECTIVENESS



### **Purpose:**

Summer Session is intended for health professionals training in public health or for those who are considering a mid-career change into public health and feel the need to develop skills. Courses taken in the summer are only offered for credit. However, admission to Summer Session does not guarantee admission to a degree program.

Students accepted for admission to an HSPH 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 the clinician 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.

Students in the Residency in Occupational/Environmental Medicine are encouraged to begin in the summer by participating in the Program in Clinical Effectiveness.

Students taking summer courses who desire a degree from the School of Public Health must be admitted to or apply separately to a degree program at HSPH.

### **Degree Programs:**

HSPH offers programs leading to the graduate degrees of Master of Public Health (MPH), Master of Occupational Health (MOH), Master of Science (SM), and doctoral programs (SD and DPH) in public health. 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 Summer Session does not guarantee admission to a degree program.***

### **Summer-only MPH Program in the Quantitative Methods concentration or the Clinical Effectiveness concentration:**

The school offers a Summer-only program for individuals seeking an MPH degree in these two areas **ONLY**. 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 Sessions or Winter Sessions. The degree requirements take three years to complete, over three summers and/or winter sessions, and offer only a limited range of courses. Summer-only options are NOT available in the other concentrations.

### **Summer Course Offerings Fulfilling Core Requirements for the MPH Program**

<p><u>Ethics:</u> ID 251 Ethical Basis of the Practice of Public Health: Health Care Delivery</p> <p><u>Biostatistics:</u> BIO 202 Principles of Biostatistics I -and- BIO 203 Principles of Biostatistics II</p> <p>BIO 206 Statistical Principles in Medical Research -and- BIO 207 or BIO 208 or BIO 209 (PCE and OEM Residents only)</p> <p><u>Epidemiology:</u> EPI 500 Fundamentals of Epidemiology</p> <p>EPI 202 Elements of Epidemiologic Research</p> <p>EPI 208 (PCE Only) Introduction to Clinical Epidemiology</p>	<p><u>Environmental Health:</u> EH 201 Introduction to Environmental Health</p> <p>ID 215 Environmental and Occupational Epidemiology</p> <p><u>Health Services Administration (for non-concentrators):</u> HPM 209 Economics for Health Policy HPM 253 Improving Quality in Health Care HPM 277 Current Issues in Health Policy HPM 510 Introduction to Management of Health Care Organizations RDS 286</p> <p>RDS 286 Decision Analysis in Clinical Research (fulfills Health Services Administration Core for CLE &amp; QM only)</p> <p><u>Social and Behavioral Sciences:</u> SHH 201 Society and Health</p> <p>SHH 250 Research on Social and Behavioral Health: A Practical Guide</p>
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## **FAMILY AND COMMUNITY HEALTH CONCENTRATION**



The Family and Community Health (FCH) concentration emphasizes the promotion of health and the prevention of disease in populations through the preparation of health professionals with leadership skills in public health.

The concentration prepares graduates for positions in diverse public health and not-for-profit settings, including federal, state and local government, voluntary health organizations, and community-based primary care settings. Program graduates fill many positions such as director of public health, director of a health agency or program, planner, analyst, and health advisor. Others continue in academic settings, their practice and research concerned with vulnerable population or patient groups or important health problems. The MPH Program can also serve as preparation for doctoral study.

### **Curriculum**

The concentration courses for the core curriculum emphasize strategies for data collection and analysis, understanding the varied determinants of the health of a population, establishing health objectives, program planning and evaluation, the management of fiscal and manpower resources, consultation, communication, advocacy, and policy formation in the public sector.

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i> ID 251 [Summer 1]	Ethical Basis of the Practice of Public Health  Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5  2.5
<i>or</i> ID 292 [Spring 2] <i>or</i> ID 513 [Spring 1] <i>or</i> PIH 293 [Fall 1]	Justice and Resource Allocation  Ethics and Health Disparities  Individual and Social Responsibility for Health	2.5  2.5  2.5

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#### **(ii) Practice Course**

ID 506 [Fall 2] <i>and</i> ID 264 [Spring]	Theory & Practice of Public Health in the United States  Practice of Family and Community Health	2.5  2.5
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*ID 506 introduces students to the legal, political, and structural systems established for the delivery of public health in the US.*

*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.*

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#### **(iii) Introductory Biostatistics**

BIO 200 [Fall] <i>or</i> BIO 202 [Summer 1] <i>and</i> BIO 203 [Summer 2]	Principles of Biostatistics  Principles of Biostatistics I  Principles of Biostatistics II	5.0  5.0
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*BIO 201 or PCE BIO will be considered.*

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**(iv) Epidemiology**

EPI 200 [Fall 1]	Principles of Epidemiology	2.5
<i>or</i>		
EPI 201 [Fall 1]	Introduction to Epidemiology	2.5
<i>or</i>		
EPI 500 [Summer 1]	Fundamentals of Epidemiology	2.5

*EPI 208 will be considered.*

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**(v) Environmental Health Sciences**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5
<i>or</i>		
Approved Options (see page 8)		

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**(vi) Health Services Administration**

See Approved Options (pages 8 & 9) 2.5

HPM 205 [Fall] is suggested for students interested in policy.

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**(vii) Social and Behavioral Sciences**

SHH 201 [Fall 1 or Summer 1]	Society and Health	2.5
<i>or</i>		
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of Public Health	2.5

*The department of Society, Human Development and Health recommends one of the above courses as a foundation for students in FCH.*

*or*  
Approved Options (see page 10)

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## SECTION 2: Elective Courses

Students are encouraged to develop expertise in an area of focus, and in consultation with a faculty advisor, register for a combination of courses that best meets the student's goals. Students are encouraged to register for a minimum of 10 credit units within a focus area in order to attain depth in the area.

Most students will want to include a combination of skills and content. Skill areas might include policy design and advocacy, health communications, or the implementation of community health programs. Examples of content areas might be cancer or infectious disease control, adolescent health, mental health for children, etc. It is not assumed that everyone is clear about career goals at the beginning of the year; it is important to use the courses, other educational events, and the resources of the university to clarify these things during the year.

### Area of Focus:

- A. Public Health Policy and Practice
- B. Child and Adolescent Health
- C1. Women and Health
- C2. Health of Women and Children in Developing Countries
- D. Violence, Mental Health and Substance Abuse
- E. Health Promotion and Disease Prevention
- F. Research Methods

**Please note:** Students in FCH who are funded through the 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  
SHDH Department  
Kresge Building, Room 624A  
Phone: (617) 432-0964  
Fax: (617) 432-3755  
Email: tlavoie@hsph.harvard.edu

### **A. Public Health Policy and Practice**

These courses include those that survey or analyze the current US health care system. Some pursue issues of rights, justice, and equity further than the required health ethics course. Others analyze the roots of ill-health and inequities in health and health care, and consider public policy options to address these problems.

#### *Public Health Policy*

HPM 208 [Spring]	Health Care Regulation and Planning	5.0
HPM 228 [Fall 2]	Intro to the New American Health Care System: Law, Policy, and Management	2.5
HPM 235 [Fall 2]	Managed Care Policy Issues	2.5
HPM 275 [Fall 2]	Health Policy Issues: Access to Dental Services	2.5
HPM 524 [Spring 2]	Racial & Ethnic Disparities in Health: Historical & Contemp. Issues	2.5
ID 292 [Spring 2]	Justice and Resource Allocation	2.5
ID 506 [Fall 2]	Theory & Practice of Public Health in the United States	2.5
PIH 218 [Fall 1]	Health and Human Rights: Concepts and Methods for Public Health	2.5
SHH 207 [Spring 2]	Race, Ethnicity & Health: Perspectives from Soc & Behav Sciences	2.5
SHH 298 [Spring]	Issues in Minority Health Policy	2.5
HCP 382 [KSG] [Fall]	Health Policy Reform: The US in Comparative Perspective	5.0
HLE 201 [KSG] [Fall]	Poverty and Social Policy	5.0

## **A. Public Health Policy and Practice (continued)**

### *Leadership in Public Health*

HPM 223 [Fall 2] or [Spring 2]	Public Speaking for Managers	1.25
HPM 245 [Winter]	Public Health Leadership Skills	2.5
HPM 247 [Spring]	Political Analysis and Strategy for US Health Policy	5.0
ID 242 [Spring 1]	Politics and Strategies for Change in Health Policy	2.5
SHH 296 [Fall]	Leadership in Minority Health Policy	2.5

### *Management in Public Health*

HPM 219 [Fall 1]	Financial Transactions and Analysis	2.5
HPM 230 [Spring 2]	Managing People in Health Care Organizations	2.5
HPM 233 [Spring]	Strategic Marketing Management in Health Systems	2.5
HPM 278 [Spring 2]	Skills and Methods of Health Care Negotiation & Conflict Resolution	1.25
HPM 520 [Fall 2]	Organizing Consumer and Community Interests in the Health System	2.5
PIH 211 [Fall 2]	Management Control in Health Organizations	2.5
PIH 251 [Spring 2]	Planning and Evaluation of Health Programs	2.5
SHH 265 [Fall 2]	Program Planning: Design & Evaluation	2.5

### *Leadership and Management in Special Situations*

ID 517 [Winter]	Public Health Response to Mass Emergencies	2.5
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## **B. Child and Adolescent Health**

Prepares public health professionals to improve the health of children and adolescents through primary prevention, intervention strategies and rehabilitation by reducing health hazards, broadening accessibility to health care, and enhancing public awareness of the special health needs of these populations.

### *Child and Adolescent Growth and Development*

ID 202 [Spring 2]	Physical Growth and Development	2.5
ID 278 [Spring 1]	Mental Health of Children and Adolescents	2.5
NUT 201 [Fall 2]	Principles of Nutrition	2.5
SHH 208 [Fall 2]	Adolescent Health	2.5
SHH 212 [Fall]	Developmental Disabilities: Evaluation, Assessment, and Systems	2.5
SHH 220 [Spring 1]	Society and its Effects on Child Health	2.5
SHH 234 [Spring 2]	Public Health Genetics: Contemporary Issues and Challenges	1.25
SHH 278 [Fall 2]	Society, Human Development and Public Health	2.5
SHH 286 [Fall]	Personality & Cognitive Development: Application to Public Health	2.5

Please see the Harvard Graduate School of Education course listings under Human Development and Psychology for additional courses.

### *Child Health Policies and Programs in the United States*

SHH 208 [Fall 2]	Adolescent Health	2.5
SHH 214 [Spring]	Developmental Disabilities II: Values, Policy, and Change	2.5
SHH 216 [Spring 2]	Childbirth Health Policy and Epidemiology	1.25
SHH 224 [Spring 1]	Services for Children with Disabilities	2.5
SHH 238 [Winter]	Social Policy and Legal Dilemmas: Child Custody and Visitation	2.5
SHH 246 [Spring 1]	Issues in MCH Programs and Policies	2.5
SHH 306 [Fall/Spring]	Clinical Effectiveness Seminar	1.25

## **C1. Women and Health**

The study of the health of girls and women throughout the life cycle, with gender and biology understood as equally important determinants of health, disease, and well-being.

EPI 269 [Fall 2]	Epidemiological Research in Obstetrics and Gynecology	2.5
SHH 210 [Spring]	Women, Health and Development: Reconciling Science and Policy	2.5
WGH 200 [Spring 1]	Women, Gender and Health	2.5
WGH 207 [Spring 2]	Advanced Topics in Women, Gender and Health	1.25
WGH 210 [Fall 2]	Women, Gender and Health: Critical Issues in Mental Health	1.25
WGH 211 [Fall 1]	Women, Gender and Health: Introductory Perspectives	2.5

## **C2. Health of Women and Children in Developing Countries\***

ID 229 [Fall 2]	Epidemiology of Infectious Diseases of Public Health Importance in Developing Countries	3.0
ID 262 [Fall 1]	Introduction to the Practice of International Health	2.5
NUT 210 [Spring]	Nutrition Problems of Less-Developed Countries	2.5
PIH 251 [Spring 2]	Planning and Evaluation of Health Programs	2.5
PIH 272 [Fall]	Foundations of Global Population and Health	5.0
SHH 293 [Spring 2]	Place, Migration, and Health	2.5
SHH 219 [Spring 2]	High-Risk Behavior: Epi/Prevention Strategies	2.5

\*See PIH listings for additional courses.

## **D. Violence, Mental Health and Substance Abuse**

This section is for students interested in the interface between mental and physical health and development. Students gain knowledge of epidemiologic methods to ascertain the prevalence of violence and mental disorders and assess their correlates and risk factors. Courses also examine how to implement and assess programs of primary and secondary prevention of violence, psychiatric disorders and addictive behaviors.

EPI 220 [Spring 2]	Psychiatric Diagnosis in Clinic and Community Populations	2.5
HPM 518 [Spring 2]	American Violence: The Intersection Between Home and Street	2.5
ID 240 [Spring 1]	Principles of Injury Control	2.5
ID 278 [Spring 1]	Mental Health of Children and Adolescents	2.5
ID 283 [Spring 2]	Epi Investigation of Social and Environmental Risk Factors for Psychiatric Disorders	2.5
ID 521 [Fall 2]	Developmental Epidemiology of Adult Psychiatric Disorder	2.5
SHH 208 [Fall 2]	Adolescent Health	2.5
SHH 219 [Spring 2]	High-Risk Behavior: Epi/Prevention Strategies	2.5
SHH 237 [Fall 1]	The Practice of Preventing Intimate Partner Violence	2.5
SHH 286 [Fall]	Personality and Cognitive Development: Application to Public Health	2.5
WGH 210 [Fall 2]	Women, Gender and Health: Critical Issues in Mental Health	1.25

## **E. Health Promotion and Disease Prevention**

This prepares professionals who will work in the public and/or private sectors designing, implementing, and evaluating programs of primary and secondary prevention in communities, work-sites, schools, clinical settings, and across larger populations through the mass media.

### *Epidemiology and Control of Health Problems*

EPI 223 [Fall 1]	Cardiovascular Epidemiology	2.5
EPI 224 [Fall]	Cancer Prevention	2.5
EPI 294 [Spring 2]	Screening	2.5
ID 269 [Fall 2]	Respiratory Epidemiology	1.25
NUT 201 [Fall 2]	Principles of Nutrition	2.5
PIH 267 [Spring 1]	HIV/AIDS in Developing Countries: Epidemiol & National Responses	2.5
SHH 249 [Spring 1]	Approaches to International Tobacco Control and PH Practice	2.5

### *Health Communication*

NUT 301 [Fall/Spring]	Nutrition/Health Promotion in the Mass Media	2.5
SHH 211 [Spring 1]	Health Promotion through Mass Media	2.5
SHH 213 [Spring]	Developing Radio Communication	2.5
SHH 221 [Spring]	Psychosocial Theories of Health and Health Behavior	5.0
SHH 265 [Fall 2]	Program Planning: Design & Evaluation	2.5
SHH 275 [Spring 1]	Health Literacy	2.5

## **F. Research Methods**

Public health practitioners produce commission and consume research. The following is a (not exhaustive) list of courses on a variety of research approaches and methods that have been found helpful by many students in the FCH concentration.

BIO 111 [Winter]	Introduction to Programming in SAS	1.25
BIO 113 [Fall 1]	Introduction to Data Management and Programming in SAS	2.5
BIO 210 [Spring]	Analysis of Rates and Proportions	5.0
BIO 212 [Spring]	Survey Research Methods in Community Health	2.5
EPI 202 [Fall 2/Summer 2]	Elements of Epidemiologic Research	2.5
HPM 276 [Summer 1]	Survey of Methods in Health Services Research	2.5
ID 236 [Spring 1]	Social Epidemiology	2.5
ID 274 [Fall/Spring]	Oral Health Policy Research Seminar	2.5
PIH 504 [Spring 1]	Applied Qualitative Methods for International Health Research	2.5
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5
SHH 231 [Spring 1]	Community Intervention Research Methods	2.5
SHH 245 [Fall]	Social and Behavioral Research Methods, Part I	5.0
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of PH	2.5



## **HEALTH CARE MANAGEMENT AND POLICY CONCENTRATION**



The MPH in Health Care Management and Policy (CMP) offers two areas of focus:

**Management Focus:** prepares professionals for managerial positions in health care delivery organizations, from integrated health systems to the various components (e.g. insurers/risk takers, hospitals, physicians, sub-acute and long-term care facilities, pharmaceutical companies). Overall educational objective: Students will be able to analyze and undertake courses of action to improve organizational performance using financial, operational, and strategic perspectives and frameworks learned in their coursework and field experiences.

**Policy Focus:** prepares health professionals for positions in health policy, as consultants, advocates, analysts, or directly as policymakers. Overall educational objective: Students will be able to apply theories of economics and political science to the design and implementation of health policy issues.

Both the Management and the Policy areas can lead to careers in the private or public sector.

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i> ID 251 [Summer 1]	Ethical Basis of the Practice of Public Health  Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5  2.5
<i>or</i> ID 292 [Spring 2] <i>or</i> ID 513 [Spring 1] <i>or</i> PIH 293 [Fall 1]	Justice and Resource Allocation  Ethics and Health Disparities  Individual and Social Responsibility for Health	2.5  2.5  2.5

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#### **(ii) Practice course**

ID 261 [Spring]	Practice of Health Care Management and Policy	5.0
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*ID 261 includes field work experience, seminars, and readings intended to familiarize the student with the problems confronted by health care policy analysts and managers, and the methods used to solve these problems.*

*Two sections are offered: one on health management, the other on health policy.*

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#### **(iii) Introductory Biostatistics**

BIO 200 [Fall] <i>or</i> *BIO 202 [Summer 1] and BIO 203 [Summer 2]	Principles of Biostatistics  Principles of Biostatistics I and II	5.0  5.0
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*BIO 201 or CLE Summer BIO will be considered.*

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**(iv) Epidemiology**

EPI 200 [Fall 1]	Principles of Epidemiology	2.5
<i>or</i>		
EPI 201 [Fall 1]	Introduction to Epidemiology	2.5
<i>or</i>		
EPI 500 [Summer 1]	Fundamentals of Epidemiology	2.5

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**(v) Environmental Health Sciences**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5
<i>or</i>		
Approved Options (see page 8)		

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**(vi) Health Services Administration****Management Focus:**

HPM 219 [Fall 1]	Financial Transactions and Analysis	2.5
<i>and</i>		
HPM 220 [Fall 2]	Financial Management and Control	2.5

*HPM 219 is an intensive course that introduces concepts of financial accounting to the non-accountant user of financial information.*

*HPM 220 is designed to introduce students to cost accounting and management control concepts and uses for health services organizations.*

*Or*

**Policy Focus:**

HPM 205 [Fall]	Economic Analysis for Public Health	5.0
<i>or</i>		
HPM 206 [Fall]	Economic Analysis	5.0

*HPM 205 provides an introduction to the basic principles of economics and economic analysis, particularly as they apply in the public health field.*

*HPM 206 is designed to bring students to an intermediate level understanding of macro-economic theory.*

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**(vii) Social and Behavioral Sciences**

SHH 201 [Fall 1 or Summer 1]	Society and Health	2.5
<i>or</i>		
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of Public Health	2.5

*These are foundation courses for this area.*

*or*

Approved Options (see page 10)

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## SECTION 2: Elective Courses

Students are encouraged to elect one of two focus areas, within which they take at least 5 credits beyond the core requirements. Each area allows students to acquire knowledge and skills in a specific area of health care policy or management.

### Management Focus:

The Management Focus provides students with core management skills required for managing health service organizations.

HPM 222 [Spring 2]	Financial Management of Health Care Organizations	2.5
HPM 223 [Fall 2] or [Spring 2]	Public Speaking for Managers	1.25
HPM 230 [Spring 2]	Managing People in Health Care Organizations	2.5
HPM 231 [Spring 1]	Competitive Strategy	2.5
HPM 232 [Spring 1]	Operations Management in Service Delivery Organizations	2.5
HPM 233 [Spring]	Strategic Marketing Management in Health Systems	2.5
HPM 255 [Spring 2]	Payment Systems in Health Care	2.5
HPM 278 [Spring 2]	Skills & Methods of Hlth Care Negotiation & Conflict Resolution	1.25
HPM 283 [Spring 2]	Advanced Skills and Methods of Health Care Negotiation	1.25
HPM 516 [Spring 2]	Health Care: Quality Improvement	2.5
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5

### Policy Focus:

The Policy Focus provides students with expertise in health economics, political sciences and health policy formulation/implementation.

HPM 208 [Spring]	Health Care Regulation and Planning	5.0
HPM 213 [Spring 1]	Public Health Law	2.5
HPM 223 [Fall 2] or [Spring 2]	Public Speaking for Managers	1.25
HPM 227 [Spring]	The Economics of Health Policy	5.0
HPM 228 [Fall 2]	Introduction to the New America Health Care System: Law, Policy and Management	2.5
HPM 235 [Fall 2]	Managed Care Policy Issues	2.5
HPM 243 [Spring 1]	Health Economics: Econ. Analysis of the Health Care System	2.5
HPM 255 [Spring 2]	Payment Systems in Health Care	2.5
HPM 275 [Fall 2]	Health Policy Issues: Access to Dental Services	2.5
HPM 278 [Spring 2]	Skills & Methods of Hlth Care Negotiation & Conflict Resolution	1.25
HPM 283 [Spring 2]	Advanced Skills and Methods of Health Care Negotiation	1.25
HPM 520 [Fall 2]	Organizing Consumer and Community Interests in the Health System	2.5
ID 272 [Spring 1]	Financing Health Care in Developing Countries	2.5



## **INTERNATIONAL HEALTH CONCENTRATION**



The MPH in International Health (IH) is intended to prepare health professionals for the practice of international health. This concentration is concerned with global health, but especially the health problems of disadvantaged populations in developing countries. Public health practitioners concerned with the improvement of health and the organization of health care must take into account demographic and epidemiologic changes, evolving patterns of health care demand, new scientific knowledge and technology, and the need for new approaches to the organization and financing of health care. They must be prepared for professional roles in policy, law, advocacy, and administration.

Graduates of the program are working in national ministries of health, international organizations, donor aid agencies, private voluntary organizations, research and academic institutions, and the private sector.

### **Concentration Goals**

The goal of the International Health program is to produce graduates who are able to:

1. Provide leadership for health in their chosen field
2. Define the nature, impact and determinants of health problems in developing countries
3. Develop appropriate policies to alleviate these health problems
4. Design, manage and evaluate health intervention programs
5. Design and carry out research to test new ideas and improve the implementation of health policies and programs

### **Curriculum**

The International Health MPH program has a core of required courses. This core has been kept to a minimum to allow students the flexibility to develop their own study programs in keeping with individual career goals. Where possible, alternative advanced courses are offered in recognition of the training and substantial experience that some students already have.

Major areas of professional interest have been identified within the practice of international health, and courses have been developed to meet the needs of those pursuing careers in those areas. Students are encouraged to use the recommended sets of courses listed below as guidelines to bring focus to their personal educational programs.

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i>	Ethical Basis of the Practice of Public Health	2.5
ID 251 [Summer 1]  <i>or</i>	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5
ID 292 [Spring 2] <i>or</i>	Justice and Resources Allocation	2.5
ID 513 [Spring 1] <i>or</i>	Ethics and Health Disparities	2.5
PIH 293 [Fall 1]	Individual and Social Responsibility for Health	2.5

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**(ii) Practice Course**

ID 262 [Fall 1]	Introduction to the Practice of International Health	2.5
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*ID 262 reviews the historical roots of international health and addresses the major contemporary issues and debates on policies and practices*

ID 519 [Spring]	Culminating Experience: MPH-IH Thesis	1.25
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*Students must propose a written thesis in accordance with the guidelines developed by the department. The thesis topic must be on an international health problem that is considered important from either a global, national, or local perspective. Program planning, implementation and/or evaluation should be addressed. A list of suggested topics will be distributed during the organizational meeting scheduled in September.*

**(iii) Introductory Biostatistics**

BIO 200 [Fall]	Principles of Biostatistics	5.0
<i>or</i>		
BIO 202 [Summer 1]	Principles of Biostatistics I	}
<i>and</i>		
BIO 203 [Summer 2]	Principles of Biostatistics II	

**(iv) Epidemiology**

EPI 200 [Fall 1]	Principles of Epidemiology	2.5
<i>or</i>		
EPI 201 [Fall 1]	Introduction to Epidemiology	2.5
<i>or</i>		
EPI 500 [Summer 1]	Fundamentals of Epidemiology	2.5

**(v) Environmental Health Sciences**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5
<i>or</i>		
Approved Options (see page 8)		

**(vi) Health Services Administration** (minimum 2.5 credits from the following)

ID 272 [Spring 1]	Financing Health Care in Developing Countries	2.5
PIH 211 [Fall 2]	Management Control in Health Organizations	2.5
PIH 244 [Spring 2]	Health Sector Reform: A Worldwide Perspective	2.5
PIH 269 [Spring 1]	Applied Politics and Economics I: Political Economy of Intl Hlth	2.5

**(v) Social and Behavioral Sciences**

SHH 201 [Fall 1 or Summer 1]	Society and Health	2.5
<i>or</i>		
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of Public Health	2.5
<i>or</i>		
Approved Options (see page 10)		

## SECTION 2: Elective Courses

Course recommendations for areas of focus:

- A. International Health Policy and Management
- B. Research and Evaluation Methods
- C. Population, Reproduction, and Child Health
- D. Infectious Disease Epidemiology and Control
- E. Health Promotion
- F. Humanitarian Studies (*Requires application and acceptance to special program - see p. 27*)

### **A. International Health Policy and Management**

This selection of courses is for students who intend to go into health policy, planning, and management roles. Some of these courses will also be relevant to students focusing primarily on one of the other special interest areas.

Objectives:

- To provide a basic knowledge of major policy and management issues for health in developing countries
- To develop skills for the analysis of health problems and services, and for the selection of appropriate problems-solving measures
- To develop skills for managing information, people, materials, and money to help organizations more effectively achieve their objectives

*Recommended courses in Policy and Economics:*

HPM 205 [Fall]	Economic Analysis for Public Health	5.0
HPM 243 [Spring 1]	Health Economics: Econ. Analysis of the Health Care System	2.5
ID 272 [Spring 1]	Financing Health Care in Developing Countries	2.5
RDS 280 [Fall 2]*	Decision Analysis for Health and Medical Practices	2.5
RDS 282 [Spring 2]*	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	2.5
PIH 218 [Fall 1]	Health and Human Rights: Concepts and Methods for Public Health	2.5
PIH 244 [Spring 2]	Health Sector Reform: A Worldwide Perspective	2.5

*Recommended courses in Management:*

HPM 219 [Fall 1]*	Financial Transactions and Analysis	2.5
HPM 220 [Fall 2]*	Financial Management and Control	2.5
HPM 233 [Spring]	Strategic Marketing Management in Health Systems	2.5
PIH 211 [Fall 2]	Management Control in Health Organizations	2.5
ID 536 [Spring 2]	Business Planning for Health Organizations	1.25

### **Kennedy School of Government**

PED 313 [Spring]	Politics of Development Policy	5.0
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*\*Courses use materials and examples taken primarily from the US, but have been found valuable by MPH-International Health students.*

## **B. Research and Evaluation Methods**

In addition to the introductory biostatistics and epidemiology courses, there are several courses that are useful to the MPH international concentration student for improving skills in quantitative and research methods.

BIO 113 [Fall 1]	Introduction to Data Management & Programming in SAS	2.5
BIO 210 [Spring]	The Analysis of Rates and Proportions	5.0
BIO 212 [Spring]	Survey Research Methods in Community Health	2.5
BIO 214 [Spring 1]	Principles of Clinical Trials	2.5
EPI 202 [Fall 2 or Summer 2]	Elements of Epidemiologic Research	2.5
EPI 203 [Spring 1]	Study Design in Epidemiologic Research	2.5
EPI 204 [Spring 2]	Analysis of Case-Control and Cohort Studies	2.5
PIH 251 [Spring 2]	Planning and Evaluation of Health Programs	2.5
PIH 263 [Winter]	Grant Writing for Funding of Research and Health Care Projects	2.5
PIH 265 [Spring 2]	Ethical Issues in International Health Research	2.5

## **C. Population, Reproduction and Child Health**

This area addresses the needs of students traditionally involved with Maternal and Child Health and/or Family Planning programs.

Objectives:

To provide students with an improved understanding of and analytic capacity in:

- The nature, extent, and determinants of the special risks to reproduction and to child growth and development in developing countries
- The factors associated with changing patterns of morbidity, mortality and fertility
- The policy and programmatic strategies for the improvement of reproductive and child health

ID 221 [Fall]	Nutrition Epidemiology II	2.5
NUT 210 [Spring]	Nutritional Problems of Less-Developed Countries	2.5
PIH 220 [Fall 2]	Introduction to Demographic Methods	2.5
PIH 251 [Spring 2]	Planning and Evaluation of Health Programs	2.5
PIH 272 [Fall]	Foundations of Global Population and Health	5.0
PIH 505 [Spring 2]	Sex, Reproduction and Reproductive Health	2.5
PIH 506 [Spring 1]	Measuring Population Health	2.5

Additional courses listed under the other special interest areas should be used to complete personal educational programs.

## **D. Infectious Disease Epidemiology and Control**

Infectious diseases continue to constitute the bulk of the burden of disease in developing countries; their control involves both the general health services and specific vertical programs. This area is intended for those students interested in controlling and researching those diseases.

Objectives:

To enable the student to:

- Describe the biology, ecology, and epidemiology of selected communicable diseases that are important in developing countries
- Carry out epidemiologic surveys in the distribution, impact, and populations at risk of particular diseases
- Describe current advances in clinical and public health management technologies for these diseases, and to be able to suggest appropriate policies and strategies for their control

IMI 201 [Fall 1]	Ecology, Epidemiology and Control of Important Parasitic Diseases of Developing Areas	3.0
PIH 267 [Spring 1]	HIV/AIDS in Developing Countries: Epidemiol & National Responses	2.5

Additional courses listed under the other special interest areas should be used to complete personal educational programs.

## **E. Health Promotion**

Health promotion and marketing are important for the modification of life-styles and specific health-related behaviors in both traditional rural settings as well as the new urban situations in developing countries.

Although primarily concerned with domestic US health problems, courses offered by the Department of Society, Human Development, and Health provide an understanding of the social science principles underlying health education and public health programs, as well as an opportunity to study a variety of practical approaches to their implementation.

## **F. Humanitarian Studies**

The Humanitarian Studies focus is part of an innovative inter-university program designed for graduate students seeking an education in the evolving and multidisciplinary field of delivering humanitarian relief and protection to populations caught up in war and major disaster. The program develops understanding and skills in a wide range of necessary public health interventions in crisis situations throughout the world while allowing for flexibility based on individual background and interest.

There is no application process; students must enroll in the two Humanitarian Studies and Field Practice courses at the Harvard School of Public Health to be considered a member of the Humanitarian Studies program. At present, the Humanitarian Studies program is open for enrollment to MPH students in the International Health concentration and to SM students in the PIH Department. For program and course information please visit our website at [www.humanitarianstudies.org](http://www.humanitarianstudies.org).

For additional information, please contact:

Humanitarian Studies Initiative  
Harvard Humanitarian Initiative  
14 Story Street, 2nd Floor  
Cambridge, MA 02138  
Phone: 617-384-8368 Fax: 617-384-5988  
Web: [www.humanitarianstudies.org](http://www.humanitarianstudies.org)  
Email: [hsi@hhi.harvard.edu](mailto:hsi@hhi.harvard.edu)



## **LAW AND PUBLIC HEALTH CONCENTRATION**



The Law and Public Health (LPH) program is designed to train leaders in the field of Public Health Law. The course of study introduces lawyers to the science of public health, provides them with skills in analysis of public health problems, and allows them to design a curriculum that will meet their particular interests.

Graduates are prepared for positions in a variety of settings, including health or environmental law work in a law firm, non-governmental organization, or in-house counsel's office; policy positions in local, state, and federal government; or posts in academia.

### **Curriculum**

In addition to the core, lawyers are encouraged to specialize in an area such as health care delivery or environmental health. An appreciation of quantitative analysis is central to the concentration.

### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i>	Ethical Basis of the Practice of Public Health	2.5
ID 251 [Summer 1]  <i>or</i>	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5
ID 292 [Spring 2] <i>or</i>	Justice and Resource Allocation	2.5
ID 513 [Spring 1] <i>or</i>	Ethics and Health Disparities	2.5
PIH 293 [Fall 1]	Individual and Social Responsibility for Health	2.5

#### **(ii) Practice Course**

ID 261 [Spring]	Practice of Health Care Management and Policy*	5.0
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*\*LPH concentrators should register for Section 2: Policy Practicum. Each student carries out a research project, performs a policy analysis or conducts a managerial study on behalf of an individual or institutional sponsor.*

#### **(iii) Introductory Biostatistics**

BIO 200 [Fall] <i>or</i>	Principles of Biostatistics	5.0
BIO 202 [Summer 1] <i>and</i>	Principles of Biostatistics I	5.0
BIO 203 [Summer 2]	Principles of Biostatistics II	

**(iv) Epidemiology**

EPI 200 [Fall 1]	Principles of Epidemiology	2.5
<i>or</i>		
EPI 201 [Fall 1]	Introduction to Epidemiology	2.5
<i>or</i>		
EPI 500 [Summer 1]	Fundamentals of Epidemiology	2.5

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**(v) Environmental Health Sciences**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5
<i>or</i>		
Approved Options (see page 8)		

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**(vi) Health Services Administration**

HPM 205 [Fall]	Economic Analysis for Public Health	5.0
<i>or</i>		
HPM 206 [Fall]	Economic Analysis	5.0
<i>or</i>		
HPM 209 [Summer 2]	Economics for Health Policy	2.5
<i>or</i>		
Approved Options (see pages 8 & 9)		

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**(vii) Social and Behavioral Sciences**

SHH 201 [Fall 1] or [Summer 1]	Society and Health	2.5
<i>or</i>		
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of Public Health	2.5
<i>or</i>		
Approved Options (see page 10)		

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**Additional Concentration-Specific Requirements**

HPM 213 [Spring 1]	Public Health Law	2.5
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*Additional options taught at Harvard Law School (TBA).*

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## **SECTION 2: Elective Courses**

The rest of the curriculum will be designed in consultation with the student's academic advisor. LPH students will be encouraged to develop a cohesive set of courses that reflects their particular interest in public health or health law. The following are recommended courses for popular areas of focus.

### **US Health Policy**

#### **Courses on policy analysis methods:**

RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5
RDS 282 [Spring 2]	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	2.5
SHH291 [Spring 2]	Policy Analysis Methods for Public Health	2.5

#### **Courses on US health care policy:**

HPM 208 [Spring]	Health Care Regulation and Planning	5.0
HPM 213 [Spring 1]	Public Health Law	2.5
HPM 235 [Fall 2]	Managed Care Policy Issues	2.5
HPM 247 [Spring]	Political Analysis and Strategy for US Health Policy	5.0
HPM 255 [Spring 2]	Payment Systems in Health Care	2.5
HPM 524 [Spring 2]	Racial & Ethnic Disparities in Health: Historical And Contemporary Issues	2.5
ID 242 [Spring 1]	Politics & Strategies for Change in Health Policy	2.5

#### **Courses on public health policy:**

ID 240 [Spring 1]	Principles of Injury Control	2.5
ID 292 [Spring 2]	Justice and Resource Allocation	2.5
ID 517 [Winter]	Public Health Response to Mass Emergencies	2.5
SHH 249 [Spring 1]	Approaches to International Tobacco Control and PH Practice	2.5
WGH 200 [Spring 1]	Women, Gender and Health	2.5
WGH 211 [Fall 1]	Women, Gender and Health: Introductory Perspectives	2.5

### **Health Technologies**

#### **Courses on clinical research design:**

BIO 214 [Spring 1]	Principles of Clinical Trials	2.5
EPI 203 [Spring 1]	Study Design in Epidemiologic Research	2.5
SHH 234 [Spring 2]	Public Health Genetics: Contemporary Issues and Challenges	1.25

#### **Courses on technology assessment methods:**

EPI 221 [Winter]	Pharmacoepidemiology	2.5
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5

### **Environmental Health Law & Policy**

#### **Courses on risk assessment & regulation:**

EH 236 [Fall]	Epi. of Environmental & Occupational Health Regulations	5.0
EH 269 [Spring]	Exposure Assessment for Environmental & Occupational Epi	2.5
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5
RDS 282 [Spring 2]	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	2.5
RDS 500 [Spring 1]	Risk Assessment	2.5

### **Environmental Health Law & Policy (continued)**

#### **Courses on the science of environmental exposures:**

EH 257 [Spring]	Water Pollution	5.0
EH 297 [Spring]	Atmospheric Environment Seminars	5.0
EH 504 [Fall]	Principles of Toxicology	5.0

#### **General courses:**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
EH 202 [Spring 2]	Principles of Environmental Health	2.5
ID 215 [Spring or Summer 1]	Environmental & Occupational Epidemiology	2.5

### **International Health Law & Policy**

#### **Courses with a human rights focus:**

PIH 214 [Fall 2]	Health & Human Rights and the International System	2.5
PIH 218 [Fall 1]	Health and human Rights: Concepts and Methods for PH	2.5
PIH 288 [Spring 2]	Issues in Health & Human Rights	2.5
WGH 200 [Spring 1]	Women, Gender and Health	2.5

#### **Courses with an international health policy & practice focus:**

PIH 244 [Spring 2]	Health Sector Reform: A Worldwide Perspective	2.5
PIH 269 [Spring 1]	Applied Politics and Economics I: Political Economy of Intl Hlth	2.5
PIH 272 [Fall]	Foundations of Global Population and Health	5.0

#### **Courses with a focus on disasters and humanitarian crises:**

ID 517 [Winter]	Public Health Response to Mass Emergencies	2.5
PIH 510 [Spring]	Humanitarian Protection in Conflict: Legal & Policy Challenges	2.5
PIH 513 [Spring 1]	Public Health Operations in Complex Emergencies and War	1.25



## **OCCUPATIONAL AND ENVIRONMENTAL HEALTH CONCENTRATION**



The Occupational and Environmental Health core curriculum is designed for physicians and other health professionals who intend to practice occupational/environmental medicine or to hold responsible positions in environmental policy and management.

Students in the Occupational and Environmental Medicine Residency (OEMR), as part of this concentration, focus on assessing workplace and community-based hazards, the physiology and biomechanical aspects of work, and a practical problem-solving approach to health problems in various work and community settings. Students in the residency typically begin their coursework during the summer through the summer Program in Clinical Effectiveness (PCE) (see additional details on pages 34-35).

*Also note: The requirements for the Master of Occupational Health (MOH) degree are similar to those for the MPH in Occupational and Environmental Health. A physician may elect either degree.*

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i>	Ethical Basis of the Practice of Public Health	2.5
ID 251* [Summer 1] <i>or</i>	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5
ID 292 [Spring 1] <i>or</i>	Justice and Resource Allocation	2.5
ID 513 [Spring 2] <i>or</i>	Ethics and Health Disparities	2.5
PIH 293 [Fall 1]	Individual and Social Responsibility for Health	2.5

*\*Suggested for students in the OEMR.*

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#### **(ii) Practice Course**

ID 263 [Spring]	Practice of Occupational and Environmental Health	5.0
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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.

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**(iii) Introductory Biostatistics**

BIO 200 [Fall]	Principles of Biostatistics	5.0
<i>or</i>		
BIO 201 [Fall]	Introduction to Statistical Methods	5.0
<i>or</i>		
BIO 202 [Summer 1]	Principles of Biostatistics I	2.5
<i>and</i>		
BIO 203 [Summer 2]	Principles of Biostatistics II	2.5

*Recommended for students in the OEMR:*

BIO 206\* [Summer 1] *and* BIO 207\* *or* BIO 208\* [Summer 2]

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**(iv) Epidemiology**

EPI 200 [Fall 1]	Principles of Epidemiology (or EPI 200 [Summer 1])	2.5
<i>or</i>		
EPI 201 [Fall 1]	Introduction to Epidemiology	2.5

*Recommended for students in the OEMR:*

EPI 208\* [Summer] Introduction to Clinical Epidemiology 5.0

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**(v) Environmental Health Sciences**

*(at least 2.5 credits from the following)*

EH 262 [Fall]	Introduction to the Work Environment	2.5
EH 504 [Fall]	Principles of Toxicology	2.5 or 5.0
ID 215 [Spring or Summer 1*]	Environmental and Occupational Epidemiology	2.5

*\*Suggested for students in the OEMR.*

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**(vi) Health Services Administration**

EH 231 [Spring]	Occupational Health Policy Administration	2.5
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**(vii) Social and Behavioral Sciences**

SHH 201 [Fall 1 or Summer 1*]	Society and Health	2.5
<i>or</i>		
Approved options (see page 9)		

*These are foundation courses for this area.*

*\*Suggested for students in the OEMR.*

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## SECTION 2: Additional Concentration-Specific Requirements

*For OEM Residents or Harvard-NIOSH Education and Research Center Awardees*

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

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## SECTION 3: Courses Recommended for All Areas

BIO 210 [Spring]	The Analysis of Rates and Proportions	5.0
BIO 213 [Fall]	Applied Regression for Clinical Research	5.0
EH 201 [Fall 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5

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## SECTION 4: Occupational Environmental Medicine Residency (OEMR) Summer Program

Students in the Occupational Environmental Medicine Residents are generally required to take the Program in Clinical Effectiveness (PCE) in the summer as the initial component of their degree program.

The following courses are recommended:

BIO 206 [Summer 1]	Introductory Statistics for Medical Research	2.5	} <i>Fulfills Biostatistics Requirement</i>
<i>and</i>			
BIO 207 [Summer 2]	Statistics for Medical Research II	2.5	
<i>or</i>			
BIO 208 [Summer 2]	Statistics for Medical Research, Advanced	2.5	
EPI 208 [Summer]	Introduction to Clinical Epidemiology	5.0	<i>Fulfills Epidemiology Requirement</i>

**Choose 2 of the following OR any other available afternoon options.**

ID 215 [Summer 1]	Environmental and Occupational Epidemiology	2.5	<i>Fulfills Environmental Health Requirement</i>
ID 251 [Summer 1]	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5	<i>Fulfills Ethics Requirement</i>
SHH 201 [Summer 1]	Society and Health	2.5	<i>Fulfills Social and Behavioral Sciences Requirement</i>

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**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 HSPH:

- The first 5 credits of HSPH epidemiology (summer or academic year)
- The first 5 credits of HSPH biostatistics (summer or academic year)
- Occupational and Environmental Epidemiology (ID 215)
- Occupational and Environmental Medicine (EH 232)
- The Practice of Occupational Health (ID 263)

2) ANY requests for Pass/Fail status in any courses must have the signed approval of an Occupational Health Program (OPH) 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 Roberta Gianfortoni sign the form may be given by an OHP faculty member or by Ann Backus.*



## QUANTITATIVE METHODS CONCENTRATION



The Quantitative Methods (QM) concentration prepares students for public health careers in which the analysis of numerical data plays a pivotal role. It is designed for mid-career health professionals and for those in the early stages of their careers who plan to emphasize the application of quantitative methods to decision-making and to etiologic research in public health.

### **Curriculum**

The program of study combines coursework in the fundamentals of biostatistics and epidemiology, an introduction to current issues in public health research and practice, and a flexible requirement for additional quantitative coursework in decision sciences and the quantitative aspects of quality assessment. Concentrators may choose advanced courses from any of the areas of quantitative study offered at the School or elsewhere in the University, including biostatistics, epidemiology, decision sciences, demography, needs assessment, and evaluation. Gaining depth in the concentration is essential for any professional position.

*\*\*A focus in Decision Sciences is available, please see course list (page 38).*

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1] <i>or</i>	Ethical Basis of the Practice of Public Health	2.5
ID 251 [Summer 1] <i>or</i>	Ethical Basis of Public Health: Health Care Delivery	2.5
ID 292 [Spring 2] <i>or</i>	Justice and Resource Allocation	2.5
ID 513 [Spring 1] <i>or</i>	Ethics and Health Disparities	2.5
PIH 293 [Fall 1]	Individual and Social Responsibility for Health	2.5

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#### **(ii) Practice Course**

ID 265 [Spring 1]	Practice of Quantitative Methods	2.5
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*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
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*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 courses below.*

*or*

Concentration-approved Research Project		2.5
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**Additional Spring Practice Course Options (2.5 credits minimum)**

BIO 212 [Spring]	Survey Research Methods in Community Health	2.5
BIO 214 [Spring 1]	Principles of Clinical Trials	2.5
BIO 234 [Summer 2]	Research Synthesis and Meta-Analysis in Public Health and Medicine	2.5
EPI 233 [Spring 1]	Research Synthesis and Meta-Analysis	2.5
EPI 294 [Spring 2]	Screening	2.5
HPM 516 [Spring 2]	Health Care: Quality Improvement	2.5
ID 240 [Spring 1]	Principles of Injury Control	2.5
PIH 506 [Spring 1]	Measuring Population Health	2.5
RDS 282 [Spring 2]	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	2.5

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**(iii) Introductory Biostatistics**

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

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**(iv) Epidemiology**

EPI 201 [Fall 1] <i>and</i>	Introduction to Epidemiology	2.5
EPI 202 [Fall 2] or [Summer 2]	Elements of Epidemiologic Research	2.5
<b>-or-</b>		
EPI 500 [Summer 1] <i>and</i>	Fundamentals of Epidemiology	2.5
EPI 202 [Fall 2] or [Summer 2]	Elements of Epidemiologic Research	2.5

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**(v) Environmental Health Sciences**

EH 201 [Fall 2] or [Summer 2] <i>or</i>	Introduction to Environmental Health	2.5
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Approved Options (see page 8)

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**(vi) Health Services Administration**

See Approved Options (pages 8 - 10)	2.5
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**(vii) Social and Behavioral Sciences**

*These are foundation courses for this area*

SHH 201 [Fall 1] or [Summer 1] <i>or</i>	Society and Health	2.5
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of PH	2.5

*or*  
Approved Options (see page 10)

## Additional Requirements

Biostatistics, Epidemiology and Decision Sciences

7.5

*Select from intermediate and advanced courses in Epidemiology, Biostatistics, or Decision Sciences (RDS).*

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## SECTION 2: Electives

Students may select a variety of approaches to this concentration. In general students are required to take a minimum of 7.5 units in courses chosen in consultation with their advisor and selected from the quantitative areas of Epidemiology and Biostatistics or from quantitative courses offered by other departments, such as decision sciences in the Department of Health Policy and Management (RDS: Risk and Decision Sciences). Intermediate and advanced courses in the Department of Epidemiology and/or Biostatistics or courses in decision sciences strengthen the program further.

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### Decision Sciences Focus

*\*\*Students wishing to focus in Decision Sciences may take the following courses.*

HPM 205 [Fall]	Economic Analysis for Public Health	5.0
HPM 206 [Fall]	Economic Analysis	5.0
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5
RDS 282 [Spring 2]	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	2.5

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## SECTION 3: Summer-Only QM

Students follow the same requirements as all students in the QM concentration selecting from summer session options. The practice course is the key difference in the program. All summer only QM students must take ID 270:

ID 270 [Summer 2]	Summer MPH Practicum and Culminating Experience	5.0
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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 HSPH. This practicum may include aspects of epidemiology, biostatistics, 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 course work, student 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 an HSPH 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 270 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.



## **CLINICAL EFFECTIVENESS CONCENTRATION**



The Clinical Effectiveness (CLE) concentration prepares students for leadership roles in evaluating and improving all aspects of health care delivery. Clinical Effectiveness is concerned with identifying the most appropriate, ethical, and cost-effective means of providing health care through prevention, early detection, or treatment.

This concentration is limited to clinicians enrolled in the Summer Program in Clinical Effectiveness. Students must apply separately for the Program in Clinical Effectiveness by February 1, 2008. 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. Website: [www.hsph.harvard.edu/clineff/](http://www.hsph.harvard.edu/clineff/). Contact Barbara Rosen: (617) 732-5648, [brosen@partners.org](mailto:brosen@partners.org).

Student applying to Clinical Effectiveness must additionally submit the same application form and observe the same deadlines as all applicants to the school through the HSPH Admissions Office.

Please note: Students who do not begin their studies with BIO 206 [Summer] and EPI 208 [Summer] are not eligible for this concentration. Such students should consider the Quantitative Methods concentration.

The CLE concentration is designed to meet two primary goals:

1. To provide the analytic and quantitative training that is needed to evaluate clinical practices
2. To provide a broad perspective of general aspects of public health

The integration of these goals provides a basis for identifying the health policy implications and public health benefits of the results of clinical investigations.

Major areas of focus that have been identified within this concentration include:

- Clinical epidemiology and biostatistics
- Cost-effectiveness analysis
- Medical decision analysis
- Health services research
- Quality improvement in health care

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### **SECTION 1: Core Requirements**

#### **(i) Ethics in Public Health Practice**

ID 250 [Fall 2] or [Spring 1]	Ethical Basis of the Practice of Public Health	2.5
<i>or</i>		
ID 251 [Summer 1]	Ethical Basis of the Practice of Public Health: Health Care Delivery	2.5
<i>or</i>		
ID 292 [Spring 2]	Justice and Resource Allocation	2.5
<i>or</i>		
ID 513 [Spring 1]	Ethics and Health Disparities	2.5
<i>or</i>		
PIH 293 [Fall 1]	Individual and Social Responsibility for Health	2.5

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## **(ii) Practice Course**

### **Full Year Students:**

EPI 242 [Full Year]	Seminar in Applied Research in Clinical Epidemiology	2.5
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This practice experience satisfies the culminating experience that is required for all MPH students. This course demonstrates a student's ability to integrate and apply the skills and competencies learned in course work to address a clinical problem identified by the student. 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 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 head of this concentration. If students are unable to make such a presentation, then they are required to submit a written summary of this MPH practicum to the concentration head.

### **Summer-Only CLE:**

Students follow the same requirements as all students in the CLE concentration selecting from summer session options. The practice course is the key difference in the program. All summer only CLE students must take ID 320:

ID 320 [Summer 2]	The Summer MPH Practicum for CLE	2.5 - 7.5
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Summer-Only Master of Public Health Program students develop on off-site practicum at their home institution under the supervision of a local mentor and a member of the faculty at HSPH. This practicum may include aspects of epidemiology, biostatistics, 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 course work, 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 an HSPH faculty supervisor is identified. Students ordinarily will 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.

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## **(iii) Introductory Biostatistics**

BIO 206 [Summer 1]	Introductory Statistics for Medical Research	2.5
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<i>and</i> BIO 207 or BIO 208 or BIO 209 [Summer 2]	Statistics for Medical Research	2.5
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*Using examples gathered from the clinical literature, these courses address the basic analytical techniques that are commonly used in clinical investigations.*

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## **(iv) Epidemiology**

EPI 208 [Summer]	Introduction to Clinical Epidemiology	5.0
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*EPI 208 covers the basic epidemiologic design issues that are relevant to clinical investigation including patient selection, outcome measurement, bias, and confounding.*

**(v) Environmental Health Services**

EH 201 [Fall 2] or [Summer 2]	Introduction to Environmental Health	2.5
<i>or</i>		
EH 202 [Spring 2]	Principles of Environmental Health	2.5
<i>or</i>		
Approved Options (see page 8)		

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**(vi) Health Services Administration**

Approved Options (see pages 8 - 10)		
<i>or</i>		
HPM 253 [Summer 2]	Improving Quality in Health Care	2.5
<i>or</i>		
HPM 277 [Summer 1]	Current Issues in Health Policy	2.5
<i>or</i>		
HPM 510 [Summer 1]	Introduction to Management of Health Care Organizations	2.5
<i>or</i>		
RDS 286 [Summer 1]	Decision Analysis in Clinical Research	2.5

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**(vii) Social and Behavioral Sciences**

SHH 201 [Fall 1 or Summer 1]	Society and Health	2.5
<i>or</i>		
SHH 281 [Fall 2]	Methods for Research on Social and Behavioral Dimensions of Public Health	2.5
<i>or</i>		
SHH 250 [Summer 2]	Resrch Soc Behavioral Health	2.5
<i>or</i>		
Approved Options (see page 10)		

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## SECTION 2: Electives

The remaining credits needed to fulfill the requirements for this concentration provide additional training within the student's area of interest and can be chosen after consultation with the student's faculty advisor.

### Biostatistics Focus:

BIO 210 [Spring]	Analysis of Rates and Proportions	5.0
BIO 211 [Spring]	Regression and Analysis of Variance in Experimental Research	5.0
BIO 213 [Fall]*	Applied Regression for Clinical Research	5.0
BIO 214 [Spring 1] or [Summer 2]	Principles of Clinical Trials	2.5
BIO 223 [Spring]	Applied Survival Analysis	5.0
BIO 224 [Summer 2]	Survival Methods in Clinical Research	2.5
BIO 226 [Fall]	Applied Longitudinal Analysis	5.0
BIO 234 [Summer 2]	Research Synthesis and Meta-Analysis in Public Health and Medicine	2.5
BIO 501 [Summer 2]	Linear and Longitudinal Regression	2.5

\*Strongly Recommended

### Epidemiology Focus:

EPI 202 [Fall 2] or [Summer 2]	Elements of Epidemiologic Research	2.5
EPI 203 [Spring 1]	Study Design in Epidemiologic Research	2.5
EPI 204 [Spring 2]	Analysis of Case-Control and Cohort Studies	2.5
EPI 221 [Winter]	Pharmacoepidemiology	2.5
EPI 236 [Summer 1]	Analytical Aspects of Clinical Epidemiology	5.0
EPI 271 [Winter]	Propensity Score Analysis: Theoretical & Practical Considerations	1.25
EPI 288 [Winter]	Data Mining and Prediction	2.5
EPI 289 [Spring 1]	Causal Inference	2.5
EPI 294 [Spring 2]	Screening	2.5

### Health Policy and Management Focus:

HPM 205 [Fall]	Economic Analysis for Public Health	5.0
HPM 206 [Fall]	Economic Analysis	5.0
HPM 209 [Summer 2]	Economics for Health Policy	2.5
HPM 253 [Summer 2]	Improving Quality in Health Care	2.5
HPM 276 [Summer 1]	Survey of Methods in Health Services Research	2.5
HPM 277 [Summer 1]	Current Issues in Health Policy	2.5
HPM 512 [Summer 2]	Medical Informatics	2.5
HPM 516 [Spring 2]	Health Care: Quality Improvement	2.5
HPM 530 [Summer 1]	Measuring and Analyzing the Outcomes of Health Care	2.5
RDS 280 [Fall 2]	Decision Analysis for Health and Medical Practices	2.5
RDS 282 [Spring 2]	Cost-Effectiveness and Cost-Benefit Analysis for Hlth Prog. Eval	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

## GENERAL POLICY ON WINTERSESSION 2007-2008

**All MPH Students must follow MPH WinterSession guidelines. Departmental guidelines cannot be substituted. General information on WinterSession can be found at <http://www.hsph.harvard.edu/admissions/registrar/winter-session/>**

- A. In general, full-time MPH students are expected to participate in activities that will enhance their 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 HSPH, other Harvard graduate schools or MIT.
  - Online courses (for credit or not for credit)
  - Independent study
  - Independent work to develop practice experience, independent research, or field study
  - Research work
  - Site visits relevant to career opportunities
  - Volunteer work in the community
- B. Every full-time MPH student is required to submit an agreement that designates the nature of the student's WinterSession activity. All agreements must be signed by the concentration leader or Assistant Dean for Professional Education, Roberta Gianfortoni, and submitted to the MPH Program Office.
- C. Any WinterSession courses taken for credit will be added to a student's Spring credit totals. No additional tuition is charged for full-time students, unless they go beyond 42.5 credits total for the year.
- D. Part-time students are not required to participate in WinterSession activities. There will be a tuition charge for any credit courses taken by part-time students.
- E. Summer-only MPH students will be allowed to register for WinterSession courses. Course charges will be the same as for any part-time student and will include a registration fee.

## MASTER OF PUBLIC HEALTH (MPH): Focus on Women, Gender, and Health

### Introduction

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, with gender, gender inequality, and biology understood as important and interacting determinants of well-being and disease. Also included are the study of 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 they live, and their ability to promote the health of their families, their communities and themselves. Inherent in this definition is recognition of diversity and inequality among women - and men - in relation to race/ethnicity, nationality, class, sexuality and age, and that protection of human rights is fundamental to health. Please visit the WGH website for more information and updates: [www.hsph.harvard.edu/wgh](http://www.hsph.harvard.edu/wgh)

### Requirements

Students should indicate their interest in the WGH concentration by contacting one of the WGH staff assistants at [wgh@hsph.harvard.edu](mailto:wgh@hsph.harvard.edu). Doctoral and masters students are responsible for fulfilling the requirements for their home department, and MPH students are responsible for fulfilling the MPH requirements, in addition to the concentration's requirements in WGH core courses and related courses focusing on women, gender, and health. The WGH concentration requires 10 credits (see requirements below). Upon graduation, the degree will be issued from the home department and students will receive a letter from the WGH steering committee attesting to completion of the WGH concentration requirements.

### MPH: Focus on Women, Gender and Health

The following coursework is required for MPH students who would like to focus on Women, Gender, and Health (WGH) as part of their Master of Public (MPH) degree. The WGH focus can be completed through all concentrations.

<b>Summary of WGH Focus Requirements</b>	
WGH Core Courses	5.0 credits
Courses including Gender Analysis	2.5 credits
Practicum <sup>◇</sup> OR another 2.5 credits of WGH core courses or courses including gender analysis	2.5 credits
<b>Total</b>	<b>10 credits</b>

<b>WGH Core Courses</b>	
WGH211 [2.5 credits, Fall 1]	Women, Gender and Health: Introductory Perspectives
WGH200 [2.5 credits, Spring 1]	Women, Gender and Health
WGH207 [1.25 credits, Spring 2]	Advanced Topics in Women, Gender and Health
WGH210 [1.25 credits, Fall 2]	Women, Gender and Health: Critical Issues in Mental Health
WGH304 [1.25 credits, Fall 2]*	Women, Gender and Health: Critical Issues in Mental Health Independent study
WGH300 [Fall, Spring]**	Women, Gender and Health Independent Study

\*May only be taken in conjunction with WGH210

\*\* May count toward up to a maximum of 2.5 credits of the Women's Health Content and/or Gender Analysis component of the WGH concentration completion requirements

Courses Including Gender Analysis	
PIH218 [2.5 credits, Fall 1]	Health and Human Rights: Concepts & Methods for Public Health
SHH210 [2.5 credits, Spring 1-2]	Women, Health, and Development: Reconciling Science and Policy
SHH215 [5.0 credits, Fall 1-2]	History, Politics & Public Health: Theories of Disease Distribution and Social Inequalities in Health
SHH237 [2.5 credits, Fall 1]	The Practice of Preventing Intimate Partner Violence

Courses with Women's Health Content	
EH241 [2.5 credits, Spring 1-2]	Occupational Safety and Injury Prevention
EH243 [2.5 credits, Fall 1-2]	Ergonomics/Human Factors
EPI213 [2.5 credits, Spring 1]	Epidemiology of Cancer
EPI223 [2.5 credits, Fall 1]	Cardiovascular Epidemiology
EPI224 [2.5 credits, Fall 1-2]	Cancer Prevention
EPI255 [2.5 credits, Fall 2]	Epidemiology of HIV Infection, Part I: Etiology, Natural History, and Transmission
EPI269 [2.5 credits, Fall 2]	Epidemiologic Research in Obstetrics and Gynecology
EPI270 [1.25 credits, Spring 2]	Advanced Reproductive Epidemiology
HPM213 [2.5 credits, Spring 1]	Public Health Law
ID202 [2.5 credits, Spring 2]	Physical Growth and Development
ID513 [2.5 credits, Spring 1]	Ethics and Health Disparities
ID521 [2.5 credits, Spring 1]	Developmental Epidemiology of Adult Psychiatric Disorders
PIH214 [2.5 credits, Spring 2]	Health, Human Rights and the International System
PIH258 [2.5 credits, Fall 2]	Frontiers of Knowledge in HIV/AIDS Prevention, Care & Research
PIH267 [2.5 credits, Spring 1]	HIV/AIDS in Developing Countries: Epidemiology and National Responses
PIH502 [2.5 credits, Spring 2]	International Reproductive Health Issues: From Theory to Practice
PIH503 [2.5 credits, Spring 2]	The Determinants of Fertility and Mortality
PIH505 [2.5 credits, Spring 2]	Sex, Reproduction and Reproductive Health
PIH518 [1.25 credits, Spring 2]	International Perspectives on Intimate Partner Violence and P.H.
SHH201 [2.5 credits, Fall 1]	Society and Health
SHH208 [2.5 credits, Fall 2]	Adolescent Health
SHH216 [1.25 credits, Spring 2]	Childbirth: Health Policy and Epidemiology
SHH219 [2.5 credits, Spring 2]	High Risk-Behavior: Epidemiology/Prevention Strategies
SHH222 [2.5 credits, Spring 2]	Social Services for Children, Adolescents and Families
SHH246 [2.5 credits, Spring 1]	Issues in Maternal and Child Health Programs and Policies
SHH278 [2.5 credits, Fall 2]	Society, Human Development and Public Health

◇ **Practicum:** As part of the general MPH degree requirements, students are required to complete a practicum. Students who wish to pursue a focus in Women, Gender and Health may select a practicum that addresses a gender topic. *The practicum must be approved by both the concentration practice instructor and the faculty of the WGH concentration.* Alternatively, students who do not complete a gender-related practicum may still meet the requirements of the Focus on WGH by completing an additional 2.5 credits of WGH core-coursework or courses including gender analysis. (NOTE: Some courses may not be offered every year, and information (credits, etc.) is subject to change. Check the Course Schedules website (<http://www.hsph.harvard.edu/registrar/courses/index.shtml>) for updates.