

Boston University

School of Public Health



Course Rotation Guide

2014-2015

Prepared by the Boston University School of Public Health Registrar's Office

Table of Contents

Academic Department and Program Contacts	3
MPH Core Course Selections	4
Suggested Course Scheduling by Concentration	6
Core Course Overview	7
Required MPH Concentration Courses.....	8
Biostatistics Concentration Required Courses.....	8
Environmental Health Concentration Required Courses	8
Epidemiology Concentration Required Courses.....	9
Global Health Concentration Required Courses.....	9
Health Law, Bioethics & Human Rights Concentration Required Courses	9
Health Policy & Management Concentration Required Courses.....	10
Maternal and Child Health Concentration Required Courses.....	11
Social and Behavioral Sciences Concentration Required Courses	11
Master of Science (MS).....	12
MS in Epidemiology Required Courses	12
MS in Environmental Health Required Courses.....	13
MS in Health Services Research Required Courses	13
Doctor of Public Health in Leadership and Management (DrPH).....	14
DrPH Program Core Courses (credits)	14
Additional Course Requirements.....	14
Doctor of Philosophy (PhD) in Environmental Health, Epidemiology or Health services Research	14
The Public Health Practicum	15
Master of Public Health Practicum.....	15
Doctor of Public Health Leadership Practicum	16
Rotation Schedule for All Courses	17
Biostatistics.....	17
Environmental Health.....	18
Epidemiology	19
Global Health.....	20
Health Law, Bioethics & Human Rights	21
Maternal and Child Health.....	22
General Public Health Courses.....	23
Health Policy and Management.....	24
Social & Behavioral Sciences.....	25
Pharmaceutical Certificate Program	26
Curriculum.....	26
Requirements for Completion of Certificate.....	26
Application Process	26
Contact.....	26
BU Courses that carry credit at SPH	27

ACADEMIC DEPARTMENT AND PROGRAM CONTACTS

Biostatistics

Chair: Lisa Sullivan
MPH Program Director: Timothy Heeren
MA & PhD Program Co-Directors: Howard Cabral, Serkalem Demissie, and Gheorghe Doros
Curriculum Coordinator: Amanda Velez , aavelez@bu.edu, 617-638-5207

Community Health Sciences

Chair: Richard Saitz
Curriculum Coordinator: Dallas Pride, dallas@bu.edu 617-414-1387
Curriculum Coordinator: Joanne Patterson, joanep@bu.edu 617-638-5048
Associate Chair for Education: Lois McCloskey

Maternal & Child Health Concentration

MPH Program Director: Lois McCloskey

Social & Behavioral Sciences Concentration

MPH Program Director: Michael Siegel

Doctor of Public Health Program

Assistant Dean of DrPH Education: Eugene Declercq
Doctoral Education Program Manager: Sebastian Bach, drph@bu.edu, 617-638-4873

Environmental Health

Chair: Roberta White
Associate Chair: Jonathan Levy
MPH Program Director: Wendy Heiger-Bernays
MS Program Director: Jennifer Schlezinger
PhD Program Director: Michael McClean
Curriculum Coordinator: Anthony Ferranti, ferranti@bu.edu, 617-638- 5940

Epidemiology

Chair: Martha Werler
Associate Chair: Lisa Fredman
MPH Program Director: Martha Werler
MS Program Director: Ann Aschengrau
PhD Program Director: Sherri Stuver
Curriculum Coordinator: Emily Katz, erkatz@bu.edu, 617-638-8322

Global Health

Chair, ad interim: Frank (Rich) Feeley
MPH Program Director: Frank (Rich) Feeley
Senior Manager, Academic Programs: Joseph Anzalone, josanz@bu.edu, 617-638-5396
Academic Services Coordinator: Travis DiJoseph, tdijo@bu.edu, 617-414-1223

Health Law, Bioethics & Human Rights

Chair: George Annas
Administrative Coordinator: Jesse Walsh, jwalsh13@bu.edu, 617-638-4626

Health Policy & Management

Chair, ad interim: David Rosenbloom
Associate Chair: Victoria Parker
Curriculum Coordinator: Kelly Smith, kellysm@bu.edu, 617-638-5044

Health Services Research

MS Program Director: Victoria Parker
PhD Program Director: Victoria Parker
Academic Program Manager: Rebecca Song, rsong@bu.edu

MPH CORE COURSE SELECTIONS

The school-wide core curriculum for the MPH program provides a strong foundation of both knowledge and skills across the broad spectrum of public health endeavors. Courses are designed and continually revised as the field of public health changes and in accordance with the ASPH Core Competencies and discipline-specific competencies.

The MPH core curriculum is organized around the five core disciplines of public health, and students must satisfy a core course requirement in each of these areas: Biostatistics, Epidemiology, Environmental Health, Health Policy and Management, and Social and Behavioral Sciences. With the exception of the Health Policy & Management core courses, students may take only one of the core course options in each of the six concentration areas for MPH degree credit. Additionally, public health practitioners need an understanding of the laws, ethics, and human rights implications of public health practices. As such, all MPH students who are U.S. citizens or permanent residents of the United States must take a sixth core course in Health Law, Bioethics, & Human Rights. Knowledge and skills in these disciplines enable graduates to analyze and consider solutions to public health problems at the community, institutional, and societal levels.

MPH students must also adhere to the SPH **Core Course Scheduling Policy**: MPH degree candidates are encouraged to complete their core course requirements, particularly the core course(s) in their concentration, as early as possible in their academic program. MPH candidates must successfully complete at least one of the core course requirements in Epidemiology, Biostatistics or Health Law, Bioethics & Human Rights within their first 12 credits of course work, a second course by 24 credits, and all three of the aforementioned cores by the time they complete 32 credits.

Exemptions to the MPH core course requirements include:

1. MSW/MPH students are waived from the core course requirement in **Social & Behavioral Sciences** upon completion of the MSW degree.
2. Students who are **not U.S. citizens or permanent residents of the United States** at the time of matriculation into the MPH program (first day of classes of the first semester) may be exempted from the Health Law, Bioethics, and Human Rights requirement. Students who wish to take the class may do so. Those who wish to exercise their prerogative to be exempted may choose to enroll in SPH LW740, Health and Human Rights, though this is not required.
3. Students who feel that they may have **completed prior coursework** similar to the core courses listed below should review the “Waiver and Transfer Credit” policy in the 2014-2015 [SPH Bulletin](#).
4. Students who completed the following undergraduate courses at Boston University within the past five years and earned a B or better may *waive* particular MPH core course requirements. Students must note that courses that waive MPH requirements **DO NOT** count towards the minimum 48 graduate credit requirement for the MPH degree.
 - Students who attain a grade of B or higher in both CAS MA 115 **AND** CAS MA 116 or CAS MA 684 will have fulfilled the MPH Biostatistics requirement

- Students who attain a grade of B or higher in SAR HP 353 will have fulfilled the Health Policy and Management core course requirement *for non-Health Policy and Management and non-International Health students*. ***Students who plan to concentrate in Health Policy and Management or Global Health must enroll in SPH PM 702 or SPH IH 704 respectively.***
5. Students in the MA/MPH program who complete GMS MS700 or GMS CI760 with a B or better within the last five years are waived from the MPH Biostatistics core course requirement.
 6. MBA/MPH students complete the Graduate School of Management core course equivalents for Biostatistics and Health Policy and Management. MBA/MPH Global Health students do enroll in IH704 as an elective course for the MPH degree.

Each concentration has designated a pattern of scheduling core courses. Please view the recommendations on the next page.

SUGGESTED COURSE SCHEDULING BY CONCENTRATION

The following table is a suggested sequence for fulfilling your core course requirements, required introductory level concentration courses, as well as optional electives for the first semester. Please consult with your academic advisor or the department's curriculum coordinator on your course schedule. You may find that a different sequence works better for your individual goals and needs. Full-time students should take no more than five classes at one time or 16 credits. Part-time students are encouraged to enroll in the core course for their concentration, as well as epidemiology or biostatistics. Epidemiology and biostatistics concentrators may select an additional core course from the first semester list below. We also highly recommend to all students that they take no more than two classes in any single day.

Biostatistics	Environmental Health	Epidemiology	Health Policy & Management		Global Health	Health Law, Bioethics and Human Rights	Maternal & Child Health	Social & Behavioral Sciences
First Semester								
BS704 (if waived, take BS723)	BS704	BS704	BS704		BS704	BS704	BS704	BS704
EH717	EH717	EH717	EP713		EH717	EP713	EP713	EP713
EP713	EP713	EP713	PM702		EP713	Fall - LW751	PM702	PM702
LW719 or LW751*	EH725 (required)	LW719 or LW751*	<u>Management Sub-concentration:</u> PM721	<u>Other sub-concentrations:</u> SB721	IH704 or IH720	Fall- LW725 and/or LW740	SB721	SB721
PH740 or PH709 or EH710 or	EH710	PM702 or SB721 or PH740	LW719 or LW751*		IH702 and/or IH703; or PH709, or PH740	SB721	MC725	SB760 or SB800 or MC725
Note: Students interested in the Pharmaceuticals Certificate Program should enroll in PH740 if their schedule allows.								
Second Semester and Beyond								
BS723 and remaining core courses	EH768 and remaining core courses	BS723 EP813 And remaining core courses	PM755 and remaining core courses.		IH704 or IH720, remaining core course, and GH concentration courses	LW850 and remaining core courses	SB820 or SB821 and remaining core courses	Assessment selective and remaining core courses

* Please see the next page for more information on which of these courses is appropriate for you.

CORE COURSE OVERVIEW

Core Course	Notes
Biostatistics: BS704: 3 credits (Replaced BS701 & BS703)	Students who successfully completed BS701 or BS703 since Fall 2010 have met the MPH core course requirement and do not have to take BS704. Other waivers from the following may apply: CAS MA 115 AND CAS MA 116 or CAS MA 684 with a B or better. MS/MPH students waive BS704 with GMS MS700.
Environmental Health: EH717: 3 credits (Replaced EH708 & EH765)	EH concentrators must also enroll in EH725 concurrently with EH717. Non EH concentrators who successfully completed EH708 since Fall 2010 do not have to enroll in EH717.
Epidemiology: EP713: 3 credits (Replaced EP711 & EP712)	Students who successfully completed EP711 or EP712 since Fall 2010 have met the MPH core course requirement and do not have to take BS704.
Health Policy & Management: PM702: 3 credits OR IH704: 4 credits	HPM concentrators must take PM702 to meet the health policy and management core course. Global Health concentrators, MI students, and international students who are not permanent residents of the US may take either IH704 or PM702 to meet the health policy & management core course requirement. Students may take both IH704 & PM702 for degree credit (the second course is taken as an elective). Students who completed SAR HP353 as undergraduates at BU in Fall 2010 or later with a B or better and who are not HPM or GH concentrations are waived from this core course requirement.
Health Law, Bioethics & Human Rights: LW719: 3 credits (Replaces LW707) OR LW751: 4 credits	Health Law, Bioethics & Human Rights (HLB&HR) concentrators must take LW751; all others may take either LW751 or LW719. If a student changes concentrations to HLB&HR after taking LW 707 or LW719 in a previous semester, he or she must do additional work. See Professor Roche in HLB&HR for more information. International students and non-permanent residents of the U.S. are exempt from the MPH core course requirement in HLB&HR.
Social & Behavioral Sciences: SB721: 3 credits OR IH720: 4 credits	Global Health concentrators and international students may take IH720. All others must take SB721. All SB concentrators must take SB 721 regardless of citizenship status. MSW students are exempt from SB721 once they complete the MSW degree.

REQUIRED MPH CONCENTRATION COURSES

These are the required courses to complete the MPH graduation requirements for each concentration. With the exception of LW751 for the Health Law, Bioethics, and Human Rights concentration, this **does not** include core courses required for MPH degree, as listed above. A minimum of 16 concentration credits must be earned for each concentration. Each MPH concentration also has a required culminating experience. Community Health Sciences, Global Health, and Health Policy and Management students register for a specific culminating experience course. Biostatistics students complete a research-oriented project and presentation at “Biostatistics in Public Health Day.” Environmental Health and Health Law, Bioethics, and Human Rights require an extensive paper and formal presentation along with registration in a capstone class. Epidemiology concentrators must pass a comprehensive examination. Dual concentrators must complete the culminating experience in each concentration.

Biostatistics Concentration Required Courses		
Course Number	Course Title	Semester Offered
BS723*	Introduction to Statistical Computing (Biostatistics concentrators must earn a B or better in BS723)	Fall/Spring/Summer
BS805*	Intermediate Statistical Computing & Applied Regression Analysis	Fall/Spring/Summer
BS852*	Statistical Methods for Epidemiology	Fall & Spring
AND BS722 -or- BS820 -or- BS821 -or- BS851 -or- BS858	Design & Conduct of Clinical Trials Logistic Regression and Survival Analysis Categorical Data Analysis Applied Statistics in Clinical Trials I Statistical Genetics I	Fall & Spring Spring Fall Alt. Spring (odd years) & Summer (even years) Fall

****BS723, BS805, and BS852 must be taken sequentially and not in the same semester without permission. Students waived from a specific requirement must still do 16 credits of approved concentration courses.***

Environmental Health Concentration Required Courses		
EH725	Analytical Methods in Environmental Health (Environmental Health concentrators must earn a B- or better in EH725)	Fall
EH768	Introduction to Toxicology (Environmental Health concentrators must earn a B- or better in EH768)	Spring
Capstone courses (Select one from list; must declare in semester taking class)	EH757, Environmental Epidemiology EH804, Exposure Assessment EH840, Advanced and Emerging Topics in Toxicology EH866, Risk Assessment Methods EH961, Directed Study (4 credits), with approval *Must do presentation (graded pass/fail) at culminating experience day based on work in course	Fall Spring Fall Spring Fall, Spring, or Summer
Various	In addition to EH725, EH768 and a capstone course for the culminating experience, a minimum of an additional 6 credits of	Fall, Spring, & Summer

	Environmental Health courses, or courses that count for Environmental Health credit, from the list of approved courses in the <i>2014-2015 SPH Bulletin</i> .	
--	---	--

<i>Epidemiology Concentration Required Courses</i>		
BS723	Introduction to Statistical Computing	Fall, Spring & Summer
EP813	Intermediate Epidemiology	Fall & Spring
Various	Minimum of additional 8 credits of epidemiology courses. At least 4 of these 8 credits must be in courses numbered EP7XX or above and no more than 4 credits may be at 900 level . See the list of approved courses, both from Epidemiology and outside the concentration, in the <i>2014-2015 SPH Bulletin</i> .	Fall, Spring & Summer

<i>Global Health Concentration Required Courses</i>		
16 credits of courses that count for IH credit	8 of 16 credits must be Global Health designated courses, remaining credits can be either Global Health designated courses or from approved list of courses counting for Global Health credit. (Refer to <i>2014-2015 SPH Bulletin</i> for complete list). Global Health designated courses are all courses numbered IH700 and above except IH704 and IH720, PH740, and PH825.	See list of all concentration courses in following section
AND At least one: IH702 IH703 IH704 IH720	Must take a minimum of one of these 4 classes, all 4 are recommended. Note that IH704 and IH720 never count as concentration credit because they are counted as core courses.	IH702 Fall IH703 Fall IH704 Fall & Spring IH720 Fall & Spring
Culminating Experience	Register for IH777 (2 credit CE Writing Seminar) or IH950 (zero credit CE option); may register for IH951 as necessary in next semester. May have option to complete a directed study, IH943, for one or two credits depending on choice of culminating experience. See Concentrator's Guide for more information.	IH777 Fall & Spring IH950, IH951, IH943 Fall, Spring & Summer

<i>Health Law, Bioethics & Human Rights Concentration Required Courses</i>		
LW751	Public Health Law	Fall
LW850	Legal Strategies to Reduce Health Risks	Spring

Various	Minimum of additional 8 credits of Health Law, Bioethics & Human Rights courses or courses that count for Health Law, Bioethics & Human Rights credit from the list of approved courses in the <i>2014-2015 SPH Bulletin</i> .	Fall/Spring/Summer
Health Policy & Management Concentration Required Courses		
4 credits in each distribution area, and concentrators may “double (or triple) count” a course as a research paper, distribution and/or integrative course requirement.		
Healthcare Delivery (4 cr.)	PM755, Health Care Delivery Systems: Issues and Innovations	Fall and Spring
Managing Organizations and People (4 credits)	PM721, Organizational Behavior and Health Care Management PM733, Health Program Management PM736, Human Resource Management in Public Health PM776, Managerial Skills for Problem Solving	Fall & Spring Summer Fall Fall
Policy Analysis & Implementation (4 credits)	PM735, Health Care Finance PM740, Comparative Health Systems and Policy in Industrialized and BRIC Countries PM758, Introduction to Mental Health Services (2 cr) PM810, Introduction to American Govt. for Public Health (2 cr) PM834, Health Regulation & Planning PM838, Health Politics & Public Policy (2 cr) PM840, Analysis of Current Health Policy Issues PM850, Organizing for Health System Change (2 cr)	Spring Spring Fall Spring Fall Spring Fall Fall
Finances and Operations (4 credits)	PM734, Principles of Non-Profit Accounting PM735, Health Care Finance PM780, Managerial Accounting for Healthcare Leaders (2 cr) PM807 Introduction to Cost Effectiveness Analysis (2 cr) PM827, Strategic Management of Health Care Organizations PM832, Operations Management in Health Care PM833, Health Economics PM835, Lean Management Techniques for Quality Health Care	Spring Spring Fall Spring Fall & Spring Fall & Spring Fall Spring
Capstone Course	PM780, Managerial Accounting for Healthcare Leaders (2 cr) PM827, Strategic Management of Health Care Organizations PM834, Health Regulation & Planning PM840, Analysis of Current Health Policy Issues	Fall Fall & Spring Fall Fall
Culminating Experience	PM940, Health Policy & Management Culminating Experience	Fall, Spring & Summer

The HPM MPH concentration offers optional subconcentrations in management, policy, and finance. Students interested in declaring a subconcentration are encouraged to meet with Kelly Smith, the Curriculum Coordinator, or their faculty advisor, and then submit a form to add the subconcentration.

Maternal and Child Health Concentration Required Courses

MC725	Women, Children, & Adolescents: Public Health Approaches	Fall & Spring
SB820 or SB821	Assessment and Planning for Health Promotion Intervention Strategies for Health Promotion	Fall & Spring
Various	Minimum of additional 8 credits of maternal and child health courses or courses that count for maternal and child health credits. See the list of approved courses in the <i>2014-2015 SPH Bulletin</i> .	Fall, Spring & Summer
Culminating Experience	MC940, Maternal and Child Health Culminating Experience MC941, Maternal and Child Health Culminating Experience, second registration	Fall, Spring & Summer

Social and Behavioral Sciences Concentration Required Courses

<u>Assessment Selective</u> (min. four credits)	SB805: Race, Ethnicity & Health SB818: Qualitative Research Methods SB820: Assessment and Planning for Health Promotion	TBD Fall & Spring Fall & Spring
<u>Intervention Selective</u> (min. four credits)	SB806: Communications Strategies for Public Health SB813: Web-Based Health Communications Strategies SB821: Intervention Strategies for Health Promotion SB833: Designing a Public Health Communications Campaign SB860: Strategies for Public Health Advocacy MC820: Managing MCH Programs	Spring Spring Fall & Spring Spring Fall Fall
<u>Evaluation</u> (4 credits)	SB822: Quantitative Methods for Program Evaluation	Fall, Spring, Summer
Various	Minimum of an additional 4 credits of Social and Behavioral Sciences courses or course that count for Social and Behavioral Sciences concentration credit from the list of approved courses in the <i>2014-2015 SPH Bulletin</i> .	Fall/Spring/Summer
Culminating Experience	SB940, Social and Behavioral Health Culminating Experience SB941, Social and Behavioral Health Culminating Experience, second registration	Fall, Spring & Summer

MASTER OF SCIENCE (MS)

These are the required courses to complete the MS graduation requirements for each department that offers the MS degree. Additional items, such as a thesis or an integrative project may also be required.

<i>MS in Epidemiology Required Courses</i>		
Course Number	Course Title	Semester Offered
Required Courses: Must earn a B or better		
BS704	Introduction to Biostatistics	Fall, Spring, & Summer
BS723	Introduction to Statistical Computing	Fall, Spring, & Summer
EP713	Introduction to Epidemiology	Fall, Spring, & Summer
EP813	Intermediate Epidemiology	Fall & Spring
AND at least two:		
BS722	Design & Conduct of Clinical Trials	Fall & Spring
BS851	Applied Statistics in Clinical Trials I	Alt. Springs (odd years) & Summers (even years)
BS852	Statistical Methods For Epidemiology	Fall & Spring
EP721	Survey Methods for Public Health	Fall
EP762	Clinical Epidemiology	Spring
EP854	Advanced Epidemiology	Fall
PM811	Health Services Research Methods	Spring
EP980	Continuing Study	Fall & Spring
<p><i>The 2 remaining elective courses are selected on the basis of the student's interests and planned thesis research. These elective courses must be taken from among the previous list of courses or other Epidemiology Department courses, excluding EP912 Directed Research in Epidemiology. Any exceptions must be approved by Dr. Aschengrau.</i></p>		

MS in Environmental Health Required Courses

Course Number	Course Title	Semester Offered
Required Courses (Must earn B or better)		
Students who have not completed an introductory, graduate level course in Biostatistics may take BS704 for MS degree credit		
BS723	Introduction to Statistical Computing	Fall, Spring, & Summer
EH710	Basic Human Physiology	Fall
EH717	Foundations of Environmental Health	Fall, Spring, & Summer
EH725	Analytical Methods in Environmental Health	Fall
EH768	Introduction to Toxicology	Spring
EH804	Exposure Assessment	Spring
EP713	Introduction to Epidemiology	Fall, Spring, & Summer
See the 2014-2015 Bulletin for a list of approved classes to meet the 48-credit minimum.		

MS in Health Services Research Required Courses

(students must earn a B or better in all required courses)

Course Number	Course Title	Semester Offered
BS704	Introduction to Biostatistics	Fall, Spring, & Summer
EP713	Introduction to Epidemiology	Fall, Spring, & Summer
PM811	Health Services Research Methods	Spring
PM814	Contemporary Theoretical & Empirical Issues in Health Services	Fall
PM821	Advanced Health Services Research Methods	Summer
And 4 credits of conceptual framework classes		
<ul style="list-style-type: none"> • PM824, Theory and Research on Organizations OR • PM826: Health, Illness and the Use of Health Services OR • PM831: Implementation Science (2 cr) OR • PM837: Evaluating Health Care Quality OR • PM842: Health Economics for Health Services Research OR • CAS EC581: Health Economics 		
Only one Health Economics course may be counted to the MS degree		
PM980	Continuing Study	Fall & Spring

DOCTOR OF PUBLIC HEALTH IN LEADERSHIP AND MANAGEMENT (DrPH)

DrPH Program Core Courses (credits)

- PH 851 Needs Assessment (4)
- PH 853 Strategic Planning and Communications (4)
- PH 854 Program and Policy Evaluation (4)
- PH 856 Law and Ethics for Public Health Leaders (2)
- PH 857 Health Economics and Financial Management for Public Health (4)
- PH 858 Cases in Public Health Management (4)
- PM 835 Lean Management (4)
- PH 866 Public Health Leadership Seminar (0)
- PH 986 Public Health Practicum (0)
- PH 990, DrPH Continuing Study Status (0, charged for equivalent of 2 credits and certified full time)

Additional Course Requirements

In addition to the core course requirements, students will complete 12 credits in methodology including statistics and research design, 4 management or finance credits, and 6 policy and advocacy credits. Students will be able to choose from a list of elective courses that have been approved by the DrPH Program. (Please see the DrPH Program Student Guidebook for the complete list of preapproved courses.) Students may petition to take a course that is not on the elective list by making a request to the Assistant Dean for DrPH Education. Students should consult with their advisors to choose the courses that will be most applicable to their program.

DOCTOR OF PHILOSOPHY (PHD) IN ENVIRONMENTAL HEALTH, EPIDEMIOLOGY OR HEALTH SERVICES RESEARCH

Please check with your program director for specific concentration requirements. Refer to the rotation schedule for SPH courses (pg. 13 of this guide and on) for when courses are available. Students must also pass comprehensive exams, produce a dissertation, and pass a qualifying exam.

THE PUBLIC HEALTH PRACTICUM

The Public Health Practicum is an integral feature of the MPH and DrPH curricula. The Practicum allows students to complement classroom and field-based learning, link theory with practice, and refine skills and competencies. For some, the practicum is a springboard for employment after graduation.

Master of Public Health Practicum

MPH students may begin a practicum after completing a minimum of 12 academic credits. Students who are in academic difficulty will need special approval from the Assistant Dean for Practice before beginning a practicum. Decisions about the choice of practicum and number of credits should be made by students to fit their own individual academic and professional needs. It is strongly recommended that these decisions be made in consultation with the academic advisor.

Course Options for Completing the MPH Practicum:

Practicum Course	Practicum Requirements	Credits & Grading	Semester Available
PH970	<ul style="list-style-type: none"> - Faculty approval - Agency oversight - Minimum of 112 practicum work hours - Poster presentation - 2 skill based professional development seminars 	0 pass/fail	Fall/ Spring/ Summer
PH975	<ul style="list-style-type: none"> - Faculty approval - Agency oversight - Minimum of 112 practicum work hours - Poster presentation - 2 skill based professional development seminars 	variable 1-4 pass/fail	Fall/ Spring/ Summer
PH984	Directed Practicum <ul style="list-style-type: none"> - Faculty approval and sponsor - Agency oversight - Minimum of 112 practicum work hours - Poster presentation - 2 skill based professional development seminars - Final product 	4 letter grade	Fall/ Spring/ Summer
PH971	MPH/MSW Practicum Course <ul style="list-style-type: none"> - required seminar - 2 skill based professional development seminars MPH/MSW students may also take PH970	1 pass/fail 0	Fall/ Spring/ Summer
Varies	Peace Corps Master's International Program	varies	n/a
IH707	Field Practicum in Public Health & the Environment (Kenya) <ul style="list-style-type: none"> - Course requirements <i>plus</i> 2 skill based professional development seminars 	6 letter grade	Summer
IH708 & 709	Program in Global Health Practice (PIHP) in the Philippines <ul style="list-style-type: none"> 5 credit classroom component, IH708 or GH708 1 credit practicum component, IH709 or GH709 - Course requirements <i>plus</i> 2 skill based professional development seminars 	6 total Letter grade	Summer

Please refer to the Practice Office Blackboard website and the BUSPH *Practicum Handbook* for more detailed information about finding and registering for a MPH practicum.

Doctor of Public Health Leadership Practicum

As the doctoral-level practicum experience, all DrPH students are expected to assume an administrative or leadership role within a local, state, federal, or international organization that addresses public health problems. Students integrate and apply the skills and knowledge they have gained through their doctoral-level academic training to the work of their practicum experience while continuing to improve upon specific DrPH competencies as set forth in their learning objectives. Additionally, students are expected to pursue practica that will broaden their expertise in public health practice either in a new role or in a new area of public health.

DrPH students begin their practicum after they have completed all of their required coursework. The work that students undertake is summarized in a list of deliverables which must directly address the DrPH competencies. The deliverables, learning objectives, and a practicum work timeline are clearly articulated in students' learning contracts and are developed in collaboration with academic advisors and field supervisors.

In addition, students prepare:

- A midpoint review and final practicum evaluation in conjunction with their field supervisors;
- A practicum report which can assume many different formats, including a detailed description of the intervention or evaluation that was planned and/or developed as part of the practicum, a case study of the development or impact of a public health policy, an examination of the role of and challenges associated with leadership in public health, or another substantial report keeping with the spirit of a practice-based solution to a public health problem;
- An organizational report that evaluates the effectiveness and efficiency of the organization to improve the public's health based on the principles covered in the DrPH Program curriculum; and
- A practicum presentation on the responsibilities that the student undertook during the practicum, the mission of the agency or organization providing the practicum site, the outcomes of student's practicum work, and the lessons learned during the practicum.

In accordance with the DrPH program's practice-focused mission, students' practicum responsibilities must not be limited to research activities, but instead should include practical application of public health principles.

DrPH students register for PH986: Public Health Practicum (0 credits, fall, spring, or summer semester). Please refer to the DrPH Student Guidebook for more detailed information about finding and registering for a DrPH practicum.

ROTATION SCHEDULE FOR ALL COURSES

The Course Rotation Guide is a resource to assist students in planning their academic programs. The courses listed are planned, but not necessarily promised. To confirm the status of a course, please review the current semester class schedule on the [BU Student Link](#).

All academic concentrations have directed study and directed research courses available for 1, 2, 3, or 4 credits every fall, spring, and summer semester. The directed study and directed research course numbers are: BS901 and 902; EH961 & 962; EP911 and 912; IH941, 942 and 943 (culminating experience only); LW951 & 952; MC931 & 932; PM931 & 932; SB921 & 922. The course number is determined by the academic appointment of the supervising SPH faculty member.

Abbreviations: “Alt.” = Alternate (every other); “TBD” = to be determined

Biostatistics

Course Number	Course Title	When Offered
BS704	Introduction to Biostatistics	Fall, Spring, & Summer
BS715	Practical Skills for Biostatistics Collaboration	Spring
BS720	Introduction to R: software for statistical computing environment	Fall, Spring, & Summer
BS722	Design & Conduct of Clinical Trials	Fall & Spring
BS723	Introduction to Statistical Computing	Fall, Spring, & Summer
BS728	Public Health Surveillance, A Methods-Based Approach	Fall
BS775	Applications of Statistical Methods in Clinical Research	Alt. Springs (even years)
BS805	Intermediate Statistical Computing and Applied Regression Analysis	Fall, Spring, & Summer
BS810	Meta-Analysis for Public Health & Medical Research	Fall
BS820	Logistic Regression and Survival Analysis	Spring
BS821	Categorical Data Analysis	Fall
BS822	Advanced Statistical Computing	Alt. Springs (odd years)
BS830	Design and Analysis of Microarray Experiments and Next Generation Sequencing	Alt. Falls (odd years)
BS845	Applied Statistical Modeling & Programming with R	Fall
BS851	Applied Statistics in Clinical Trials I	Alt. Springs (odd years) & Summers (even years)
BS852	Statistical Methods in Epidemiology	Fall & Spring
BS853	Generalized Linear Models with Applications	Spring
BS854	Bayesian Methods in Clinical Trials	Alt. Falls (odd years)
BS855	Bayesian Modeling for Biomedical Research and PH	Alt. Falls (even years)
BS856	Adaptive Designs for Clinical Trials	Alt. Springs odd years)
BS857	Analysis of Correlated Data	Spring
BS858	Statistical Genetics I	Fall
BS859	Applied Genetic Analysis	Alt. Springs (odd years)

BS860	Statistical Genetics II	Alt. Springs (even years)
BS861	Applied Statistics in Clinical Trials II	Fall
BS980	Continuing Study (fee)	Fall, Spring, & Summer

Environmental Health

<i>Course Number</i>	<i>Course Title</i>	<i>When Offered</i>
EH710	Physiologic Principles for Public Health	Fall
EH713	Molecular Biology and Public Health	Spring
EH717	Foundations of Environmental Health	Fall, Spring & Summer
EH725	Analytical Methods in Environmental Health	Fall
EH735	Environmental Determinants of Infectious Disease	Spring
EH745	Wastewater and Health / Sustainable Sanitation	Fall
EH749	Global Environmental Health	Spring
EH750	Water Quality and Public Health	Fall
EH757	Environmental Epidemiology	Fall
EH768	Introduction to Toxicology	Spring
EH780	Great Calamities & Their Consequences for PH	TBD
EH800	Community Based Methods for Environmental Health	Spring
EH804	Exposure Assessment	Spring
EH805	Environmental Health Science, Policy and Law	Alt. Springs (even years)
EH811	Geographic Information Systems (GIS) in Public Health	Fall
EH840	Advanced and Emerging Topics in Toxicology	Fall
EH866	Risk Assessment Methods	Spring
EH914	Environmental Health Doctoral Seminar	Fall & Spring
EH980	Continuing Study in Environmental Health (fee)	Fall & Spring
PH825	The Role of Human and Environmental Factors in Emerging and Re-Emerging Infectious Diseases	Fall

Epidemiology

<i>Course Number</i>	<i>Course Title</i>	<i>When Offered</i>
EP713	Introduction to Epidemiology	Fall, Spring, & Summer
EP721	Survey Methods for Public Health	Fall
EP730	Epidemiology of Vaccine-Preventable Diseases	Spring
EP735	Principles of Cancer Epidemiology (2 cr)	Spring
EP740	Introduction to the Epidemiology of Aging	Summer
EP748	Drug Epidemiology (formerly EP830)	Fall
EP751	Cardiovascular Epidemiology	Fall
EP752	Cancer Epidemiology (4 cr)	TBD
EP755	Infectious Disease Epidemiology	Fall & Spring
EP758	Nutritional Epidemiology	Summer
EP759	Reproductive Epidemiology	Fall & Spring
EP762	Clinical Epidemiology	Spring
EP763	Genetic Epidemiology	Fall
EP764	The Epidemiology of HIV/AIDS in the Developed and Developing World	Fall
EP775	Social Epidemiology	Spring
EP784	The Epidemiology of Tuberculosis in the Developed & Developing World	Fall
EP800	Microbes & Methods: Selected Topics in Outbreak Investigations	Fall
EP813	Intermediate Epidemiology	Fall & Spring
EP817	A Guided Epidemiologic Study	Spring
EP854	Advanced Epidemiology (formerly Modern Epidemiology)	Fall
EP855	Advanced Epidemiology Seminar: Issues in Study Design	Alt. Springs (odd years)
EP856	Selected Topics in Epidemiologic Methods	TBA
EP857	Design and Conduct of Cohort Studies	Fall
EP858	Design and Conduct of Case-Control Studies	Fall
EP860	Novel Analytic Method for Epidemiology	Alt. Springs (even years)
EP861	Quantitative Bias Analysis Methods for Epidemiologic Research	Spring
EP980	Continuing Study in Epidemiology (fee)	Fall & Spring

Global Health

<i>Course Number</i>	<i>Course Title</i>	<i>When Offered</i>
IH702	Skills in Critical Analysis and Evidence Based Writing for Public Health Professionals	Fall
IH703	Global Public Health: History, Approaches, and Practices	Fall
IH704	Global Public Health and Medical Care: A Systems Approach	Fall & Spring
IH707	Kenya: Field Practicum in Public Health and the Environment	Summer
IH708	Philippines Program/Classroom and Health Financing Study Tour	Summer
IH709	Philippines Program/Internship	Summer
IH715	Antiretroviral Program Management and Adherence Issues in Low-Resource Settings	Summer
IH720	Social & Behavioral Sciences in Global Public Health	Fall & Spring
IH722	Supply Chain Management for Improved Health System Performance	Spring
IH735	Gender, Sexuality, Power, and Inequity in Global Health	Fall
IH741	Global Health Consultation Techniques	Spring Break Week
IH743	Implementing Health Programs in Developing Countries: Making Programs Work	Fall & Spring
IH744	Program Design for Global Health	Summer
IH745	Monitoring & Evaluation of Global Health Programs	Fall & Spring
IH755	Managing Disasters and Complex Humanitarian Emergencies	Spring
IH756	Applied Methods for Pharmaceutical Systems Assessment	Fall
IH757	Fighting Corruption Through Accountability & Transparency	Spring
IH762	Essentials of Economics and Financing for Global Health	Fall
IH766	Sexual & Reproductive Health in Disaster Settings	Fall
IH770	Poverty, Health, and Development	Spring
IH773	Financial Management for Health Programs	Fall & Spring
IH777	Global Health Culminating Experience Writing Seminar	Fall & Spring
IH781	Nutrition and Public Health in Lower Income Countries	Spring
IH795	Global Aids Epidemic: Social & Economic Determinants, Impact, & Responses	Fall
IH800	Clinical development of a new medicinal: A case study about licensing a new vaccine for the developing world	Spring
IH804	mHealth	Spring
IH805	Controversies in Global Control and Eradication of Infection Diseases	Spring
IH808	Research Proposal Development: A Practical Approach to Team Grant Writing	Fall
IH811	Applied Research Methods in Global Health	Spring

Course Number	Course Title	When Offered
IH854	From Data to Dashboards: Building Excel Skills to Support Health Program Decisions	Fall & Spring
IH880	Confronting non-communicable diseases in the developing world: the burden, costs and health systems challenges	Spring
IH881	Program Design for Global Reproductive and Perinatal Health	Spring
IH885	Global Trade, Intellectual Property and Public Health	Fall
IH887	Planning & Managing MCH Programs In Developing Countries	Fall
IH888	Seminar on Global Health Policy Issues	Spring
IH891	Global Pharmaceutical Policy: at the Intersection of Process and Politics	Spring
IH943	Global Health Directed Study for Culminating Experience	Fall/Spring/Summer
IH950	Global Health Culminating Experience, first registration	Fall/Spring/Summer
IH951	Global Health Culminating Experience, Second Registration	Fall/Spring/Summer
PH740	Pharmaceuticals in Public Health: An Introductory Course	Fall & Spring
PH825	The Role of Human and Environmental Factors in Emerging and Re-Emerging Infectious Diseases	Fall

Health Law, Bioethics & Human Rights

Course Number	Course Title	When Offered
LW709	Health Care Rationing	Summer
LW719	Essentials of Public Health Law	Fall, Spring & Summer
LW725	Ethical Issues in Medicine and Public Health	Fall
LW739	Jewish Bioethics	Spring
LW740	Health and Human Rights	Fall
LW751	Public Health Law	Fall
LW800	Genetics, Law and Public Health	Summer
LW830	Health Insurance, Health Reform, and the Law	Spring
LW840	Health Law, Bioethics, and Human Rights	Spring
LW850	Legal Strategies to Reduce Health Risks	Spring
LW854	Mental Health Law and Ethics	Spring

Maternal and Child Health

<i>Course Number</i>	<i>Course Title</i>	<i>When Offered</i>
MC705	Safer Sex in the City: From Science to Policy	Spring
MC725	Women, Children, & Adolescents: Public Health Approaches	Fall & Spring
MC730	Leading To Face Challenges And Achieve Results In Public Health	Spring & Summer
MC759	Perinatal Epidemiology	Fall
MC763	Maternal & Child Health Policy Making	Spring
MC770	Children With Special Health Care Needs	Summer
MC775	Research and Action for Eliminating Health Inequities	Fall
MC782	Women & Substance Use	Summer
MC785	Introduction to Sexual and Reproductive Health Advocacy	Alt. Spring (odd years)
MC786	Immigrant Family Health: Public Health Across Borders	Fall
MC795	The Health of Adolescents and Emerging Adults	Spring
MC800	Preventing Mental Health Disorders Among Women, Children, and Adolescents: A Life Course Perspective	Spring
MC802	Implementing Community Health Initiatives: A Field-based Course in Leadership and Consultation	Fall
MC815	Sexual and Reproductive Health Advocacy: From Rights to Justice	Alt. Spring (even years)
MC820	Managing MCH Programs	Fall
MC840	Women and Health Policy: Gender, Evidence, and Politics	Fall
MC845	Perinatal Health Services	Spring
MC940	Culminating Experience in MCH	Fall, Spring, Summer
MC941	Culminating Experience in MCH II	Fall starting fall 2015, Spring, Summer

General Public Health Courses

<i>Course Number</i>	<i>Course Title</i>	<i>When Offered</i>
PH510 and PH511 are for undergraduates only and do not carry MPH degree credit		
PH510	Introduction to Public Health: Undergraduates Only	Fall & Spring
PH511	Pathogens, Poverty, and Populations: An Introduction to Global Health	Spring only
Graduate Level PH Courses		
PH709	The Biology of Public Health	Fall
PH712	Public Health Response to Emergencies in the United States	Prior to spring semester (first full week in January)
PH728	Religion and Public Health (carries SB concentration credit; for all others, carries elective credit)	Spring
PH740	Pharmaceuticals in Public Health: An Introductory Course (carries Global Health credit and is required for the Pharmaceutical Certificate Program)	Fall & Spring
PH800	Preparing Doctoral Students to Teach Public Health	Summer
PH825	The Role of Human and Environmental Factors in Emerging and Re-Emerging Infectious Diseases (carries Environmental Health and Global Health concentration credit)	Fall
PH970, 975, 984	Public Health Practicum	Fall, Spring, & Summer
PH971	MSW/MPH Practicum	Fall, Spring, & Summer
PH995	Summer Research for Curricular Practical Training	Summer

Health Policy and Management

Course Number	Course Title	When Offered
PM702	Introduction to Health Policy and Management	Fall, Spring & Summer
PM721	Organizational Behavior and Health Management	Fall & Spring
PM733	Health Program Management	Summer
PM734	Principles of Non-Profit Accounting	Spring
PM735	Health Care Finance: how policy-makers & managers can use money as a tool to improve health care	Spring
PM736	Human Resource Management in Public Health	Fall
PM740	Comparative Health Systems and Policy in Industrialized and BRIC Countries	Spring
PM744	Introduction to Health Facility Planning & Design	Summer
PM755	Health Care Delivery Systems: Issues and Innovations	Fall & Spring
PM758	Introduction to Mental Health Services	Fall
PM776	Managerial Skills for Problem Solving	Fall
PM780	Managerial Accounting for Healthcare Leaders	Fall
PM802	Pharmaceutical Management, Policy and Practice in the 21st Century: A Case Study Approach	Fall
PM807	Introduction to Cost Effectiveness Analysis	Spring
PM810	Introduction to American Government for Public Health	Spring
PM811	Health Services Research Methods	Spring
PM814	Contemporary Theoretical & Empirical Issues in Health Services Research	Fall
PM818	Health Information Technology	Spring
PM821	Advanced Health Services Research Methods	Summer
PM824	Theory & Research on Organizations	Alt. Fall (odd years)
PM826	Health, Illness & The Use of Health Services	Spring
PM827	Strategic Management of Health Care Organizations	Fall & Spring
PM828	Advanced Seminar in Qualitative Methods for Health Services Research	Fall
PM830	Developing Patient-Based Health Status and Outcomes Measures	TBD
PM831	Implementation Research & Implementation Science	Fall
PM832	Operations Management in Health Care	Fall and Spring
PM833	Health Economics	Fall
PM834	Health Regulation & Planning	Fall
PM835	Lean Management Techniques for Quality Health Care	Spring
PM837	Evaluating Health Care Quality	Fall
PM838	Health Politics and Public Policy	Spring
PM840	Analysis of Current Health Policy Issues	Fall
PM842	Health Economics for Health Services Research	Alt. Springs (odd years)
PM850	Consumer Organizing and Advocacy for Health System Change	Fall
PM855	Cost Effectiveness Analysis & Decision Analysis	Alt. Springs (even years)
PM940	Health Policy & Management Culminating Experience	Fall, Spring, & Summer
PM980	Continuing Study in Health Services Research	Fall and Spring

Social & Behavioral Sciences

Course Number	Course Title	When Offered
SB710	Nutrition and Public Health	Fall
SB721	Social and Behavioral Sciences for Public Health	Fall & Spring
SB730	Stress as a Public Health Problem	Summer
SB732	Nutrition, Aging, and the Elder Population	Summer
SB733	Mass Communication and Public Health	Fall
SB740	Social Factors: A Contextual Framework for Public Health Research and Practice	Start in 2015-2016
SB750	Preventing Intimate Partner Violence	Spring 15, then Fall 16
SB751	Sexual Violence: Prevention of Sexual Violence	To fall-spring in 2015-2016
SB752	Understanding Pornography: A Public Health Perspective	First offering fall 2015
SB760	Health of LGBT Populations	Fall
SB780	Mental Health and Public Health: A Social and Behavioral Sciences Perspective	Fall
SB785	Alcohol, Tobacco and Other Drug Use: People, Populations, and Policies	First offering spring 2016
SB800	The Obesity Epidemic: Moving from Individual to Environmental and Policy Approaches for Promoting Physical Activity and Healthy Eating	Fall
SB805	Race, Ethnicity, and Health	Spring
SB806	Communications Strategies for Public Health Organizations	Spring
SB808	Merging Clinical and Population-Based Perspectives in Public Health Practice: Tension and Resolution	Alt. Summers (odd years)
SB813	Web-based Health Communication Strategies for Public Health Interventions	Spring
SB818	Qualitative Research Methods	Fall & Spring
SB820	Assessment and Planning for Health Promotion	Fall & Spring
SB821	Intervention Strategies for Health Promotion	Fall & Spring
SB822	Quantitative Methods for Program Evaluation	Fall, Spring, Summer
SB833	Designing and Implementing a Public Health Communications Campaign	Spring
SB860	Strategies for Public Health Advocacy	Fall
SB940	Culminating Experience in Social and Behavioral Sciences	Fall, Spring, Summer
SB941	Culminating Experience in Social and Behavioral Sciences II	Fall starting fall 2015 Spring, Summer

PHARMACEUTICAL CERTIFICATE PROGRAM

Curriculum

The Pharmaceuticals Program gives students a solid foundation in pharmaceuticals while providing flexibility to tailor their coursework toward a specific career path in policy, industry, or in health programs and non-governmental organizations. Through tailoring their electives, students have the opportunity to identify and acquire the specific skill sets they plan to use after graduation.

Throughout the program, students complete a mixture of courses totaling **12 credits**. In addition to their coursework, students participate in a bi-weekly Pharmaceuticals Program Seminar Series and complete a practicum that includes activities relevant to both pharmaceuticals and their concentration. All practicums must be approved by the Pharmaceuticals program director.

Requirements for Completion of Certificate

1. Successfully complete SPH PH740, Introduction to Pharmaceuticals and Public Health.
2. Take at least **8 other credits** of approved Pharmaceuticals Program courses and earn a minimum grade of B in all courses (please see the program web-site for up-to-date information about our approved course listings: www.bu.edu/pharm).
3. Actively participate in the seminar series throughout participation in the program, attending a minimum of 18 seminars. Students are of course encouraged to attend all of the seminars.
4. Complete a practicum that has been approved – in advance – both by the Pharmaceutical Program Director and by the student's advisor from their primary concentration.

Application Process

All students who have been accepted to BUSPH for the MPH program are eligible to [apply](#) for the Pharmaceuticals Program. Students must apply to the program during their first semester at BUSPH.

Students wishing to enroll must complete an online [Pharmaceuticals Program Entry Form](#).

- For students matriculating in the fall, applications are accepted through October 7 of each year.
- For students matriculating in the spring, applications are accepted through February 7 of each year.

Contact

[Carey Howard](#)

Academic Program Coordinator
careyh@bu.edu

[Christopher Gill](#), MD, MS
Program Director

BU COURSES THAT CARRY CREDIT AT SPH

School	Course #	Title	Credits	Type	Notes
College of Communications					
COM	CM707	Writing for Media Professionals	4	elective	must do PH projects
COM	JO702	Advanced Science Writing	4	elective	must do PH projects
COM	JO703	Magazine Writing	4	elective	must do PH projects
COM	JO519	Narrative Radio	4	elective	must do PH projects
Graduate Medical Sciences					
GMS	CI670	Biostatistics with Computer	waiver only for MS/MPH - 2 credits for others	core course	waiver or credit
GMS	MA622	Religion & Public Health	3	elective for GH only, concentration for SB concentrators	
GMS	MA700	History and Theory of Medical Anthropology	3	concentration for SB concentrators	
GMS	MI713	Comprehensive Immunology	4	concentration for EH concentrators	
GMS	MS700	Elementary Biostatistics for Biomedical Sciences	waiver only for MS/MPH -	core course	waiver or credit
Graduate School of Management					
GSM	HM833	Health Sector Marketing	3	elective	
GSM	HM840	Health Sector Consulting	3	elective	
GSM	IM853	Indian Field Seminar	3	elective	must be sure does not conflict with start of spring semester at SPH
GSM	OB802	Leading Transformation in Health and Social Sector Organizations	3		
GSM	OB830	Leading the Mission-Driven Organization	3	elective	

GSM	OM840	Managing and Improving Quality: Six Sigma Green Belt Cert.	3	elective	
GSM	OB844	Managing Organizational Change	3		

Metropolitan College

MET	CS581	Electronic Health Records	4	elective	
MET	ML721	US Food Policy	4	elective	

College of Health and Rehabilitation Sciences (Sargent College)

SAR	HS776	Nutritional Epidemiology	4	concentration for Epidemiology concentrators	
SAR	HS551	Human Nutrition Science	4	elective	must take as graduate student
SAR	OT713	Developmental Disabilities	2	elective	LEND Fellowship

School of Theology

STH	TR830	Values and Practices in Developing Healthy Communities (Decent Care)	4	elective	good for newer SPH students
-----	-------	--	---	----------	-----------------------------

Tufts University, Friedman School of Nutrition (*through cross registration)

Tufts *	NUTR 201	Fundamentals Nutrition Science	4	elective	worth 4 BU credits; 1 at Tufts
Tufts *	NUTR 228	Community & PH Nutrition	4	elective	worth 4 BU credits; 1 at Tufts
Tufts *	NUTR 217	Monitoring & Evaluation for Nutrition & Food Security Projects	4	concentration credit for IH	cannot take this course and IH745

Students must meet pre-requisites or have instructor approval.

Students must submit a [transfer credit form for pre-approved classes](#) should they wish the class to “count” to the MPH degree.

Students must earn a B or better for approved credit to count for the MPH degree

Registration is according to the policies and procedures of the school offering the course; registration is not guaranteed.

Tufts cross-registration requires additional steps; please see the Registrar’s Office for more information.