

Roadmap to the MPH Certificate in Epidemiology & Biostatistics

1. Integrated Core (16 credits)

Develop a strong foundation in public health through our core courses:

- ✓ PH700 Foundations of Public Health (0 cr.)*
- ✓ PH717 Quantitative Methods for Public Health (4 cr.)
- ✓ PH718 Leadership and Management in Public Health (4 cr.)
- ✓ PH719 Health Systems, Law, and Policy (4 cr.)
- ✓ PH720 Individual, Community and Population Health (4 cr.)

2. Epi/Biostats Certificate (16 credits)

Build depth in the Epidemiology & Biostatistics certificate through the following required courses:

- ✓ BS723 Intro to SAS (4 cr.) or BS730 Intro to R (4 cr.)
- ✓ EP770 Concepts and Methods of Epidemiology (4 cr.)
- ✓ 4 credits study criticism coursework (EP722; EP730; EP740; EP748; EP752; EP755; EP758; EP759; EP764; EP775; EP784; EP790; EP850; EP857; EP858; EH757; GH801; MC759) (4 cr.)
- ✓ 1 data analysis course (BS805; BS820; BS851; BS852; BS858) (4 cr.)

3. Additional 16 credits

You may use one of the following options to fulfill your additional 16 required credits:

1. Complete a second functional certificate (16 cr.)
2. Complete a context certificate (12 cr.) plus 1 elective (4 cr.)
3. Complete 16 elective credits

3. MPH Practicum (240 hours; 0 credits)

Gain experience as a public health professional through a Practicum.

- ✓ Students are able to begin their Practicum after they have completed at least 12 SPH credits
- ✓ Various Practicum opportunities are posted here: <http://www.bu.edu/sph/students/resources/for-students/> although students are able to expand their Practicum search elsewhere
- ✓ Questions? Contact sphprac@bu.edu

4. Integrative Learning Experience (0 credits)

Integrate, synthesize, and apply the knowledge and skills you've learned through the MPH in an Integrative Learning Experience.

- ✓ Students register for the ILE in their last semester
- ✓ You may complete a data analysis or a problem-based research paper

*PH700 Foundations of Public Health (0 cr.) is a self-directed, online course completed prior to matriculation & is required only for MPH students who matriculate in Fall 2018 or later.

**CATE COURSEWORK
(TS)**

Health: An Introductory

the following:

Management (2; fall and

New Vaccine (4; fall)

Management, Policy &

(4; fall)

Compliance (4; fall and

of Clinical Trials (4; fall

ical Research Studies

the following:

Management (2; spring)

Pharmaceutical Systems (4; fall)

Intellectual Property and

ical Policy: at the Inter-

(2; spring)

(4; fall)

Information

Monika Wirtz

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[du/pharm/](http://www.bu.edu/pharm/)

the schedule

**MPH PRACTICUM
(0 Credits)**

Gain experience as a public health professional through a Practicum.

Requirements:

- ◆ 240 work hours
- ◆ Direct application of skill-based education by working at a local, national, or international field site with a public health-related organization.

Practicum resources can be located at <http://www.bu.edu/sph/students/resources/courses-and-academic-resources/for-students/search-tools/>

**INTEGRATIVE LEARNING EXPERIENCE
(0 CREDITS)**

- ◆ Completed in final semester
- ◆ Student initiated, faculty guided
- ◆ Students will integrate and apply knowledge and skills obtained throughout the degree program
- ◆ Tied to functional area certificate
- ◆ One ILE required per student

**CAREER PREP (PH746)
(0 CREDITS)**

- ◆ Best taken in 2nd semester of study
- ◆ Six 90-minute sessions
- ◆ Sessions include topics such as "marketing yourself," "Interview Strategies," and "evaluating and Negotiating Opportunities"
- ◆ Deliverables include a resume, cover letter, and an elevator pitch

All students are required to complete one of the following Functional Area Certificates:

- ◆ Community Assessment, Program Design, Implementation, and Evaluation
- ◆ Environmental Hazard Assessment
- ◆ Epidemiology and Biostatistics*
- ◆ Health Policy and Law*
- ◆ Health Communication and Promotion
- ◆ Healthcare Management
- ◆ Monitoring and Evaluation*
- ◆ Program Management

*these functional certificates pair well with the Pharm Certificate. However, any combination of a functional certificate and Pharm is possible.



Boston University School of Public Health

Accepted Students' Day February 22, 2019

9:30am - 10am

Hiebert Lounge

10am - 11am

Hiebert Lounge

11am - 1pm

L201, L203, L206

1pm - 2pm

Hiebert Lounge

2pm - 2:30pm

Hiebert Lounge

2:30pm - 4pm

2:30pm - 4pm (Lobby)

2:30pm - 4pm (L201 and L202)

2:30pm - 4pm (Hiebert Lounge)

2:30pm - 2:50pm, 3:20pm - 3:40pm (L203)

2:50pm - 3:20pm, 3:40pm - 4pm (L212)

4pm - 5pm

Hiebert Lounge

Registration and Opening Reception

Introduction ✓

Ann Marie Larese, Senior Director of Admissions

Dean's Welcome (video) ✓

Sandro Galea, MD, MPH, DrPH, Dean
Professor of Epidemiology

Your Education ✓

Lisa Sullivan, PhD, MA, Associate Dean for Education
Professor of Biostatistics

Research ✓

Michael McClean, ScD, Associate Dean for Research
Professor of Environmental Health

Alumni Community ✓

Jacoba Johanna van Heugten, Assistant Dean of Development
and Alumni Relations

Public Health Activism ✓

Harold Cox, MSSW, Associate Dean for Public Health Practice
Associate Professor of Community Health Sciences

Lunch and Public Health in Action—Climate Change

Student Panel

Rachel Pieciak, MPH'16, Moderator

Financial Aid (group session)

The BUSPH Experience

Campus Tours (Leaves every 30 minutes)

Financial Aid (Individual counseling appointments)

MPH Certificate Tables

Student Life & Housing (Two 20 minute sessions)

Careers and Practicum (Two 20 minute sessions)

Closing Reception

Including faculty, alumni, current students, and staff

PUBLIC HEALTH IS ALL THIS AND MORE

Public health is both a smart and rewarding career choice. The Bureau of Labor Statistics projects that job growth in health-related fields will surpass that of any industry over the next decade. Of course, not all public health jobs are in healthcare. The realm of public health has expanded to include jobs in media, marketing, business, law, policy, and many other fields. That's because public health touches almost every aspect of contemporary life, as this chart of opportunities illustrates.

BIostatistics AND DATA ANALYTICS

- Data Scientist
- Research Analyst
- Statistical Programmer

LEADERSHIP AND MANAGEMENT

- Practice Manager
- Senior Project Administrator
- Healthcare Consultant

ENVIR
HEALT

COMMUNITY HEALTH SCIENCES

- Implementation and Evaluation Specialist
- Needs Assessment Coordinator
- Director of Family Health and Wellness

HEALTH COMMUNICATION AND PROMOTION

- Health Center Communications Officer
- Media and Technology Coordinator
- Peer Health Education Program Manager

GLBA

EPIDEMIOLOGY AND RESEARCH

- Surveillance Epidemiologist
- Global Infectious Disease Analyst
- Clinical Research Associate

MATERNAL AND CHILD HEALTH

- Teen Pregnancy Prevention Coordinator
- Family Life and Sex Education Specialist
- Domestic Abuse Advocate

LAW,
AND E

publichealth.org/careers



**ENVIRONMENTAL
HEALTH**

- State/Federal Environmental Health Officer
- Deputy Director, City Public Health Office
- Risk Assessment Manager

**HEALTH SERVICES
DELIVERY**

- Quality Improvement Specialist
- Public Health Clinician
- Patient Navigator

GLOBAL HEALTH

- Technical Officer, Capacity Building
- Monitoring and Evaluation Specialist
- Emergency Response Coordinator

**PHARMACEUTICALS
AND LIFE SCIENCES**

- Clinical Trials Project Manager
- Health Economics Outcomes Research Associate
- Business Analyst

**LAW, POLICY,
AND ETHICS**

- Policy Analyst
- Compliance Officer
- Public Health Attorney

**CHRONIC AND
NON-COMMUNICABLE
DISEASES**

- Cancer Research Analyst
- Diabetes Program Coordinator
- Prevention Specialist

"I was working for Doctors Without Borders in the Mudug region of Somalia helping anyone who needed it in a tough part of the world, being a clinician in a place where clinicians could make a real difference. It was immensely gratifying, but I became frustrated with the limits of clinical medicine. As a clinician, I was dealing with 'downstream' pathology—patching up problems that had started long before I saw the patient. I started thinking that there must be another way, a better way to make prevention central to a health agenda. I decided to go back to school for public health."

SANDRA

What could we change if we knew more?

At SPH, you'll research humanitarian challenges in depth, then test the impact of solutions out in the world. What works? What doesn't?

Research Assistantship

Assist members of the faculty as a research assistant in your area of interest or undertake your own research projects.

Practicums and Internships

Integrate and apply classroom learning in public health work environments as you work closely with professionals in the field.

Activist Lab

Create positive change through public health by educating, inventing, and advocating in the community with this innovative action-learning opportunity.

Population Health Exchange (PHX)

PHX embodies Boston University School of Public Health's commitment to offering lifelong, comprehensive population health education and serves as a resource for students and alumni looking to update their skills or deepen their understanding of the pressing public health issues of our time.

Spring Break Challenge

Join a collaborative team of students from SPH, BU School of Social Work, and College of Health & Rehabilitation Sciences: Sargent College at BU to design and execute a community-based planning project.

The Boston Project

Get involved with the greater Boston community through organized volunteer opportunities and student organizations.

Teaching Assistant

Work closely with SPH faculty to help teach a class or work on an area of research of particular interest to you.

"I was doing bench research at Purdue University. It was a good job, but I wanted to improve lives more directly. Public health hadn't even been on my radar, but once I became aware of the possibilities, I knew it was the path for me. Through learning-in-action opportunities like practicums, I discovered the

BOSTON—THE GLOBAL HUB FOR PUBLIC HEALTH INNOVATION

If you're interested in public health, you study in Boston. The city has been the epicenter of research, innovation, and leadership in the field for generations. Boston's commitment to public health manifests itself in healthcare, biotech, and pioneering nonprofit and government programs. Boston-area public health organizations have been responsible for leading-edge programs advancing healthcare policy and reform, teen relationships, addiction services, homelessness, and violence prevention.

As an SPH student, you'll find that Boston is a vibrant living laboratory, offering rich opportunities for observation, research, and participation. You'll collaborate with public and private partners in the area, helping to reshape the public health agenda to address historic inequities and prioritize what matters most to the health of populations.



Why Boston is at the frontier of public health

- Home to the first public health department in the country.
- Consistently receives the highest amount of annual funding from the National Institutes of Health of any city in the country.
- Supports 14 teaching hospitals, including SPH neighbor Boston Medical Center, a merger of BU Medical Center Hospital and Boston City Hospital—the first municipal hospital in the US.
- Location of Boston University's National Emerging Infectious Diseases Laboratories—also an SPH neighbor.
- Host to hundreds of community health organizations and global health-related NGOs.

Connections that propel your career

Our alumni network is thoroughly woven into the fabric of the larger global health marketplace—hospitals, nonprofits, government agencies, universities, research centers, and biotech companies—providing robust connections to mentoring and career opportunities.

- *Student Alumni Mentoring Program (StAMP)* pairs you with a mentor working in the sector of your preference.
- *Career Advisory Network* gives you access to a cohort of more than 9,500 alumni from the global Boston University Alumni Association.
- *Annual Career Fair and Alumni Network events* bring you up close and personal with alumni and SPH employers, many of whom are graduates of our programs.
- *Informational interviews, panels, and workshops* offer one-on-one career advice and industry insights that you can draw on when you need them.

"The versatility of our degree offerings reflects the spectrum of needs within the communities we serve—regionally and globally. To maintain our leadership, we understand that we have to keep working to make our campus look like the environment in which we operate. That's one of the great advantages of our location in Boston. We are immersed in a diverse global community, and our daily lives bring us into contact with the segments of society we aspire to

PERSONAL DEDICATION TO A WISER AND MORE HARMONIOUS WORLD

Tomorrow's world will be better than today's because SPH students are dedicated to making it so. Although our community is broadly diverse, our shared perspectives serve as a powerful bond. You'll find that students support and inspire one another and play important leadership roles, serving on committees in which key decisions are made about the curriculum and the direction of the School. Extracurricular activities add to the dynamism of our community. Here are just a few examples:

Racial Justice Talking Circle

SPH and Boston University Medical Campus faculty, staff, and students convene for informal and unstructured conversations about racism, privilege, and inequities—across our own identities and backgrounds and across our roles at the School.

SPH Talent Show

Every year students, staff, faculty, and alumni share their off-hours passions with the community. Whether it's a solo guitar rendition of a Leonard Cohen tune or an avant-garde performance art piece, this is a chance to share a different facet of yourself.

Dean's Symposia and Public Health Fora

Faculty and students convene to discuss pressing public health challenges with influential global thought leaders such as Cornell William Brooks, President and CEO, National Association for the Advancement of Colored People (NAACP). Watch past symposia on the SPH website.

International Student Organization Cultural Show

One of the highlights of the year, this unforgettable evening of international food, fashion, and performances supports global health causes.

Student Organizations

Activism is a part of life at SPH. Students run organizations that change lives, such as Students of Color for Public Health, LGBTQ Alliance, the Health and Human Rights Caucus, and many more.

Coffee Chats with the Dean

During regular Coffee Chats, students drop by for a quick hello or a lengthy discussion as well as a hot cup of tea or coffee with Dean Sandro Galea before class begins.

National Public Health Week

SPH students and faculty work together to create engaging lessons about public health-related topics for the local community.

The 5 p.m. Social

This casual get-together gives the members of this nonstop community a chance to take a breather, meet at a local eatery, and socialize for a couple of hours. As you might expect, the conversation and the company are never dull.