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Dean

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Associate Dean, Education

**Joshua M. Sharfstein**  
Associate Dean, Public Health Practice and Training

**Alexandra McKeown**  
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**Janet DiPietro**  
Associate Dean, Research and Faculty

**Michael Ward**  
Associate Dean, Student Affairs

**Nondiscrimination Policy**

Johns Hopkins University admits students of any race, color, gender, religion, age, national or ethnic origin, disability, marital status or veteran status to all of the rights, privileges, programs, benefits, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, gender, marital status, pregnancy, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity or expression, veteran status, or other legally protected characteristic in any student program or activity administered by the University, including the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other University-administered programs or in employment.

Questions regarding Title VI, Title IX, and Section 504 should be referred to the Office of Institutional Equity, Garland Hall 130, Telephone: (410) 516-8075, (TTY): (410) 516-6225.

**Accommodations for Persons with Disabilities**

The University provides appropriate, necessary and reasonable accommodations to qualified students, faculty and staff who are disabled.

Visit [www.jhsph.edu/offices-and-services/student-affairs/disability-support-services](http://www.jhsph.edu/offices-and-services/student-affairs/disability-support-services) for complete information on disability support services at the Johns Hopkins Bloomberg School of Public Health, or contact the disability services coordinator at 410-955-3034 or jhsph.dss@jhu.edu.
Letter from the Dean

This is an exciting time to be involved in public health. And it’s even more exciting because this is the Centennial year of the Bloomberg School.

As the first independent, degree-granting graduate school of public health, our School has led the way in public health research, education and practice. The Master of Public Health degree was first awarded here. The first academic departments of epidemiology, international health and public health administration were founded here. We have been at the forefront of public health for the past 100 years, creating population-level solutions to public health problems and training leaders who have secured lifesaving victories for humanity.

The importance of public health is reaffirmed every day, now and over the past 100 years. Big questions arise constantly: What’s the best way to deliver health care or respond to a natural disaster? How does climate change affect health? How can we ensure clean, safe water for a planet of seven billion people? How can we prevent obesity and diabetes?

At the Bloomberg School we nurture scientists, researchers and public health practitioners dedicated to creating solutions for these and other problems. In our laboratories, we conduct cutting-edge research to understand the underlying causes of chronic and genetic diseases, discover new vaccines and discern how pathogens infect the human body. In the field, we devise ways to improve health on a population level, in both developed and developing nations, and among people of every age, ethnicity and socioeconomic status.

Ranked as the #1 graduate school of public health for more than 20 years, we now serve 2,243 students from 81 countries, with approximately 670 full-time faculty. Our scientists conduct ongoing research projects in the U.S. and in more than 130 countries. And our almost 20,000 highly trained alumni lead ministries of health, international agencies, research institutes and academic programs throughout the world.

With 10 departments, more than 60 centers and institutes, 7 master’s, 3 doctoral and 9 combined degree programs, we offer our students the best in public health education. We send our graduates into the world to lead in the global defense of human life.

As we celebrate our Centennial in 2016 and reflect on our history as the oldest and largest institution of its kind, the Bloomberg School will continue to lead the charge toward better health for all.

This Academic Prospectus provides an overview of our departments, describes our degree programs and explains how you can make the academic journey that will allow you to help fulfill this promise and meet a single, profound goal: to protect health and save lives—millions at a time.

Michael J. Klag, MD, MPH ’87
Dean
Johns Hopkins Bloomberg School of Public Health
At a Glance

**Founded**
1916 by William H. Welch and John D. Rockefeller

**Current Dean**
Michael J. Klag, MD, MPH ’87

**Students**
2,243 from 81 nations

**Faculty**
670 full-time, 709 part-time

**Alumni**
50,000+ since 1919

**Research**
Ongoing in more than 130 countries

**Location and Contact Information**
615 N. Wolfe Street
Baltimore, MD 21205
Phone: 410-955-3543
Fax: 410-955-0464
Website: www.jhsph.edu
Email: jhsph.admiss@jhu.edu

**Departments**
Biochemistry and Molecular Biology
Biostatistics
Environmental Health Sciences
Epidemiology
Health, Behavior and Society
Health Policy and Management
International Health
Mental Health
Molecular Microbiology and Immunology
Population, Family and Reproductive Health

**Highlights**
› First institution of its kind worldwide
› Largest school of public health in the world
› Receives 20 percent of all grants and contracts awarded to the 50 accredited U.S. schools of public health
› Ranked No. 1 by U.S. News and World Report since 1994

▶ For more Bloomberg School facts, flip to “A Century of Public Health at Hopkins” (page 4) or visit www.jhsph.edu

An early Doctor of Science in Hygiene class with William Henry Howell and William Henry Welch.
1923
Table of Contents

1. Letter from the Dean
2. School At a Glance
4. What is Public Health?
4. A Century of Public Health at Johns Hopkins
6. Summary of Degrees
8. Chart: Overview of Departments, Degrees & Areas of Study

Departments and Academic Offerings
10. Biochemistry and Molecular Biology
12. Biostatistics
14. Environmental Health Sciences
18. Epidemiology
21. Graduate Training Programs in Clinical Investigations
23. Health, Behavior and Society
26. Health Policy and Management
30. International Health
34. Mental Health
36. Molecular Microbiology and Immunology
38. Population, Family and Reproductive Health
41. Master of Bioethics (Berman Institute)
43. Master of Public Health (Schoolwide)
47. Combined Degree Programs
50. Residency Programs
52. Certificate Programs
59. Institutes
59. Postdoctoral Training Programs
59. Research Centers & Institutes
59. Online Learning

Applying to the Bloomberg School
60. How to Apply
63. Chart: Application Requirements
64. Chart: Application Deadlines
65. Academic Calendar
66. Finding Funding
67. Tuition and Living Expenses

Student Life
68. Life in Baltimore
70. Connect with JHSPH
What is Public Health?

In medical fields, clinicians treat diseases or injuries, one patient at a time. But in public health, we prevent disease and injury in communities and populations. We identify causes of disease and disability, and we implement large-scale solutions.

For example, instead of treating a gun wound, we identify causes of gun violence and develop interventions. Instead of treating premature or low birth-weight babies, we investigate the factors at work and we develop programs to keep babies healthy. Instead of prescribing medication for high blood pressure, we examine the links between obesity, diabetes and heart disease, and use our data to influence policy aimed at reducing all three conditions.

When William Henry Welch founded this school, 100 years ago, the field of public health was smaller. Public health researchers and practitioners focused their work on epidemics, infectious diseases, vaccines, infant survival and similar areas. The field has grown significantly and today public health approaches are used in areas as wide-ranging as epigenetics, chronic disease, mental health, disaster response, refugee health, injury prevention and tobacco control.

We do the research that identifies causes of disease and disability. We advocate for solutions. We consult with policymakers and provide them with the evidence they need to make change. We work in communities by identifying trends, implementing solutions, and increasing healthy behavior.

As educators, we train the next generation of public health professionals who will create and carry out the programs and policies that improve health.

A Century of Public Health at Johns Hopkins

When Johns Hopkins, philanthropist and Baltimore businessman, died in 1873, he left $7 million to establish the Johns Hopkins University and Johns Hopkins Hospital. At the time, it was the largest philanthropic bequest in U.S. history.

Johns Hopkins University was the first in the western hemisphere to be based on a model of the European research institution, where research and the advancement of knowledge are intertwined with teaching. Its establishment began a revolution in U.S. higher education.

In 1916, with a grant from the Rockefeller Foundation, William Henry Welch founded the Johns Hopkins School of Hygiene and Public Health. It was the first independent, degree-granting institution for research and training in public health.

Since then, our work has expanded in scope and across the globe. Our microbiologists work to find a vaccine for malaria, while behavioral scientists research ways to discourage populations from smoking. Environmental health scientists work to discover which foods prevent cancer, while health policy analysts evaluate health insurance programs and make recommendations based on their findings. Epidemiologists identify trends in health and illness, looking for links, causes, and interventions in areas such as HIV/AIDS, tuberculosis and infant mortality. And there is so much more.

Join us as we look to another century of “Protecting Health, Saving Lives—Millions at a Time.”
1795
Johns Hopkins is born on his family’s tobacco plantation in southern Maryland

1873
Mr. Hopkins dies, leaving $7 million to establish the Johns Hopkins University and Hospital

1876
Johns Hopkins University is founded in Baltimore

1879
The Certificate of Public Health program is established and William H. Welch founds the American Journal of Hygiene

1916
On June 13, Johns Hopkins University receives a grant from the Rockefeller Foundation to establish the School of Hygiene and Public Health

1920
Biochemist E.V. McCollum and his team discover vitamin D

1922
The Certificate of Public Health (CPH) becomes the Master of Public Health (MPH) degree, creating the template for other public health programs around the world

1948
Immunologists David Bodian, Howard Howe and Isabel Morgan from the Department of Epidemiology, identify three types of poliovirus, laying groundwork that leads to the Salk polio vaccine

1948
Epidemiologist B. Frank Polk achieved international recognition for his AIDS expertise, devising studies of the natural history of the disease before the HIV virus was even discovered

1957
Alumnus Leroy Burney is the first Surgeon General to officially declare that cigarette smoking is a causative factor of lung cancer

1963
Toxicologist Anna Baetjer, one of the first scientists to identify the relationship between occupation and lung cancer, establishes a research and training program at Johns Hopkins in environmental toxicology

1974
Susan P. Baker develops a key tool in injury prevention called the Injury Severity Score

1976-1980
Dean Emeritus Alfred Sommer proves a 4-cent dose of vitamin A prevents blindness and dramatically reduces childhood mortality

1999
Virologist Keerti Shah co-authors the definitive epidemiology study linking cervical cancer to human papilloma virus (HPV), paving the way for diagnostic testing and the eventual vaccine

2001
The School’s name is changed to the Johns Hopkins Bloomberg School of Public Health to honor the support and contributions of Michael Bloomberg

2006
Faculty members Ronald Gray and Maria Wawer demonstrate reduction of HIV transmission by circumcision

2008
Nobel laureate Peter Agre leads the Johns Hopkins Malaria Research Institute in novel research aimed at reducing and eliminating malaria

THE FUTURE
How will you make public health history?

Susan Baker, professor in the Department of Health Policy and Management, is a leading advocate for child-restraint laws in the U.S and internationally.

Al Sommer, Dean Emeritus and alumnus, proved that biannual 4-cent doses of vitamin A prevent blindness and drastically reduce child mortality.

The Wolfe Street building, on the Johns Hopkins Medical Institutions campus, has undergone many changes. It is now nine stories tall and covers an entire city block.
The Johns Hopkins Bloomberg School of Public Health offers ten graduate degrees (seven master’s and three doctoral) that will help students hone their skills and become exemplary public health professionals.

**Master's Degrees**
- Master of Bioethics (MBE)
- Master of Health Administration (MHA)
- Master of Health Science (MHS)
- Master of Public Health (MPH)
- Master of Public Policy (MPP)
- Master of Science (ScM)
- Master of Science in Public Health (MSPH)

**Doctoral Degrees**
- Doctor of Philosophy (PhD)
- Doctor of Public Health (DrPH)
- Doctor of Science (ScD)

### Summary of Degrees

**MASTER’S DEGREES**

**Master of Bioethics (MBE)**

The MBE is a new collaborative program of the Johns Hopkins Berman Institute of Bioethics and the Johns Hopkins Bloomberg School of Public Health. An innovative, interdisciplinary, and cross-divisional graduate program, the goal of the MBE program is to prepare students from diverse individual and professional backgrounds for the bioethics challenges of professional and civic life.

Graduates of the MBE program will be equipped to drive the responsible pursuit of new knowledge, new approaches to considering societies’ thorniest issues, and new ways of improving health to further progress in science and technology, the humanities and arts, and public health and medicine.

For more information about the MBE, see page 41 or visit www.bioethicsinstitute.org/MBE

**Master of Health Administration (MHA)**

The MHA offered through the Department of Health Policy and Management is designed to prepare students to begin or advance their careers in management and leadership positions within health services organizations. The program emphasizes the conceptual and analytical skills required to understand and manage today’s healthcare organizations and to prepare for tomorrow’s challenges. It is an accelerated, cohort-based program that focuses on the U.S. healthcare system.

The program seeks students from a broad range of academic and professional backgrounds. MHA graduates find careers in hospitals, health systems, consulting firms and other health sector businesses.

For more information about the MHA, see page 26 or visit www.jhsp.edu/academics/degree-programs/masters-programs/master-of-health-administration

**Master of Health Science (MHS)**

The MHS is a specialized degree offered by each academic department of the Bloomberg School. MHS programs focus on a single branch of public health so that students can receive in-depth training in addition to a broad-based perspective of the field.

MHS students range from recent college graduates to mid-career professionals interested in changing or enhancing their careers. Typical MHS graduates go on to research careers or further graduate study.
Because the MHS programs vary in content and admissions requirements, interested students should contact their program of interest for detailed information.

For more information about the MHS, see the appropriate department or visit www.jhsph.edu/academics/degree-programs/masters-programs/master-of-health-science

Master of Public Health (MPH)
The Schoolwide MPH provides integrated training in the core competencies of public health, providing the knowledge and skills needed to define, critically assess and resolve public health problems. The MPH program is designed for professionals with prior field or academic experience who are interested in making a difference in the health of populations. Medical students are eligible for the MPH program after they have completed their second year of medical school. The Bloomberg School’s MPH graduates represent a wide variety of professions, including clinicians, attorneys, social workers, researchers, teachers and social scientists.

For more information about the Schoolwide MPH, see page 43 or visit www.jhsph.edu/academics/degree-programs/master-of-public-health

Master of Public Policy (MPP)
The MPP offered through the Department of Health Policy and Management provides students a broad look at public policy formulation, implementation and evaluation. Students prepare for professional careers solving public problems through policy analysis and design, program management, and community and public advocacy. Students learn to identify public policy problems, develop feasible alternatives, gain exposure to frameworks for identifying criteria for comparing proposed options and develop skills to evaluate policies during and after implementation.

For more information about the MPP, see page 27 or visit www.jhsph.edu/academics/degree-programs/masters-programs/master-of-public-policy

Master of Science (ScM)
The ScM degree program is targeted to students interested in building research careers in one of the following fields: biochemistry and molecular biology, biostatistics, environmental health science, epidemiology, genetic counseling, and molecular microbiology and immunology. Graduates of ScM programs work in a wide variety of public health research settings.

Because these programs vary in their content and admissions requirements, interested students should contact their program of interest directly prior to application.

For more information about the ScM, see the appropriate department or visit www.jhsph.edu/academics/degree-programs/masters-programs/master-of-science

Master of Science in Public Health (MSPH)
The MSPH is a professional degree program offered through the individual academic departments. The degree offers an alternative to the MPH degree for students desiring more focused training or who are less experienced. MSPH degrees couple intensive, focused academic training with a field experience, providing students the opportunity to integrate their academic training with real-world public health practice.

Because the MSPH programs vary in their content and admissions requirements, interested students should contact their program of interest for detailed information.

For more information about the MSPH, see the appropriate department or visit www.jhsph.edu/academics/degree-programs/masters-programs/master-of-science-in-public-health

Doctor of Public Health (DrPH)
The DrPH program is designed for students intending to pursue leadership careers in the professional practice of public health. DrPH students aspire to careers as health department directors, senior health care managers, or leaders in other organizations on the front lines of public health practice. Applicants to the DrPH program must hold an MPH or equivalent professional degree. This year, the DrPH is offered by two academic departments. A Schoolwide DrPH is under development and will be open for application shortly.

Because the DrPH varies in content and admissions requirements, interested students should contact their program of interest for detailed information.

For more information about the DrPH, see the appropriate department or visit www.jhsph.edu/academics/degree-programs/doctoral-programs/doctor-of-public-health
## Overview of Degrees and Areas of Study

### MPH

**Schoolwide**

Students may customize their degree or pursue one of the following areas of study:
- Child and Adolescent Health
- Epidemiologic and Biostatistical Methods for Public Health and Clinical Research
- Food, Nutrition and Health
- Global Environmental Sustainability and Health
- Health in Crisis and Humanitarian Assistance
- Health Leadership and Management
- Health Systems and Policy
- Infectious Diseases
- Social and Behavioral Sciences in Public Health
- Women’s and Reproductive Health

<table>
<thead>
<tr>
<th>Area of Study</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berman Institute of Bioethics</td>
<td>Clinical Ethics, Ethics, Policy and Emerging Biotechnologies, Global Bioethics, Public Health Ethics, Research Ethics</td>
</tr>
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</table>

### MHA

**Health Policy and Management**

- Health Administration

### MPP

**Health Policy and Management**

- Public Policy

### MSPH

#### Environmental Health Sciences

- Occupational and Environmental Hygiene
- Toxicity Testing and Human Health Risk Assessment of Environmental Agents

#### Health, Behavior and Society

- Health Education and Health Communication

#### Health Policy and Management

- Health Policy

#### International Health

- Global Disease Epidemiology and Control
- Health Systems
- Human Nutrition
- Social and Behavioral Interventions

#### Population, Family and Reproductive Health

- Adolescent Health
- Child Health
- Maternal, Fetal and Perinatal Health
- Women’s Health
- Sexual and Reproductive Health
- Population and Health

### MHS

#### Biochemistry and Molecular Biology

- Biochemistry and Molecular Biology

#### Biostatistics

- Biostatistics

#### Environmental Health Sciences

- Environmental Health

#### Epidemiology

- Cancer Epidemiology
- Cardiovascular Disease and Clinical Epidemiology
- Clinical Trials and Evidence Synthesis
- Environmental Epidemiology
- Epidemiology of Aging
- General Epidemiology and Methodology
- Genetic Epidemiology
- Infectious Disease Epidemiology

#### Graduate Training Programs in Clinical Investigation

- Clinical Investigation

#### Health, Behavior and Society

- Social Factors in Health

#### Health Policy and Management

- Health Economics

#### International Health

- Health Economics

#### Mental Health

- Mental Health

#### Molecular Microbiology and Immunology

- Molecular Microbiology and Immunology

#### Population, Family and Reproductive Health

- Demography
- Adolescent Health
- Child Health
- Maternal, Fetal and Perinatal Health
- Women’s Health
- Sexual and Reproductive Health
- Population and Health

### ScM

#### Biochemistry and Molecular Biology

- Biochemistry and Molecular Biology

#### Biostatistics

- Biostatistics

#### Environmental Health Sciences

- Environmental Health

#### Epidemiology

- Cancer Epidemiology
- Cardiovascular Disease and Clinical Epidemiology
- Clinical Trials and Evidence Synthesis
- Environmental Epidemiology
- Epidemiology of Aging
- General Epidemiology and Methodology
- Genetic Epidemiology
- Infectious Disease Epidemiology

#### Graduate Training Programs in Clinical Investigation

- Clinical Investigation

#### Health, Behavior and Society

- Genetic Counseling

#### Molecular Microbiology and Immunology

- Molecular Microbiology and Immunology
### PhD Programs

**Biochemistry and Molecular Biology**
- Biochemistry and Molecular Biology

**Biostatistics**
- Biostatistics

**Environmental Health Sciences**
- Exposure Sciences and Environmental Epidemiology
- Toxicology, Physiology, and Molecular Mechanisms

**Epidemiology**
- Cancer Epidemiology
- Cardiovascular Disease and Clinical Epidemiology
- Clinical Trials and Evidence Synthesis
- Environmental Epidemiology
- Epidemiology of Aging
- General Epidemiology and Methodology
- Genetic Epidemiology
- Infectious Disease Epidemiology

**Graduate Training Programs in Clinical Investigation**
- Clinical Investigation

**Health, Behavior and Society**
- Social and Behavioral Sciences

**Health Policy and Management**
- Bioethics and Health Policy
- Health and Public Policy
- Health Economics and Policy
- Health Services Research and Policy

**International Health**
- Global Disease Epidemiology and Control
- Health Systems
- Human Nutrition
- Social and Behavioral Interventions

**Mental Health**
- Mental Health

**Molecular Microbiology and Immunology**
- Molecular Microbiology and Immunology

**Population, Family and Reproductive Health**
- Adolescent Health
- Child Health
- Maternal, Fetal and Perinatal Health
- Women’s Health
- Sexual and Reproductive Health
- Population and Health

### DrPH Programs

**Epidemiology**
- Epidemiology

**Health Policy and Management**
- Health Policy and Leadership
- Health Informatics
- Quality Outcomes and Patient Safety

A new Schoolwide DrPH program is under development and will be open for applications shortly.

**ScD Programs**

**Epidemiology**
- Cancer Epidemiology
- Cardiovascular Disease and Clinical Epidemiology
- Clinical Trials and Evidence Synthesis
- Environmental Epidemiology
- Epidemiology of Aging
- General Epidemiology and Methodology
- Infectious Disease Epidemiology

### Combinations

**Degree Programs Offered with Other Institutions**
- BA/MHS
- BA/MSPH
- JD/MPH
- MA/MSPH
- MSPH/MI
  (Peace Corps Master’s International)
- MSPH/RS
- MPH/MBA
- MPH/MSW
- MPH/MD
- MSN/MPH
- MD/PhD

**Degree Programs Offered within the Bloomberg School**
- Doctoral/MHS in Biostatistics
- Doctoral/MSPH in International Health
- MPH/General Preventive Medicine Residency
- MPH/Occupational and Environmental Medicine Residency

### Online

The Bloomberg School has an ever-growing portfolio of online courses, certificates and other programs.

Students admitted to our two online/part-time degrees may complete 80% of their coursework online.
- Schoolwide MPH
- Environmental Health Science: MSPH in Occupational and Environmental Hygiene

### Chart Key

* Applicants may not matriculate directly into this ScM degree

The Johns Hopkins Bloomberg School of Public Health is currently not accepting applications to the online/part-time Master of Science in Public Health in Environmental Health Sciences and online/part-time Master of Public Health from residents of certain states. For more information about affected states and programs, please visit the website of the program.
Biochemistry and Molecular Biology is the study of molecular and genetic bases of cellular processes. Our faculty conducts research to increase current knowledge of the biochemical and molecular mechanisms of normal and abnormal cellular processes. Our research and graduate programs may be applied to a broad group of important and currently relevant health problems such as cancer, aging, neurological diseases, fertility and environmentally based diseases.

The Biochemistry and Molecular Biology programs are planned for individuals with a bachelor’s degree in chemistry, biochemistry or biology, preferably with experience in physical chemistry, physics and mathematics. All candidates should have some research experience, although this requirement is waived for applicants from smaller colleges. Applicants are requested to indicate their research experience and career goals and to name the person(s) with whom their research experience has been gained.

Department research interests include: cellular and molecular biology, biochemistry, molecular genetics, structural biology, developmental and reproductive biology, enzymology, molecular biophysics, molecular endocrinology, chemical biology, epigenetics, post-translational modifications, and inflammation and stress response biology.

DEGREE PROGRAMS

MHS in Biochemistry and Molecular Biology

duration: 1 year**

application deadline: June 1

The MHS requires nine months of coursework culminating in a library-based thesis. The program is designed for students exploring career options, seeking to improve their chances for medical or other professional schools, or planning to pursue advanced graduate work or positions in industry.

MHS students in this track must complete 64 credits during the four terms of the academic year. While some coursework is required, overall, there is great flexibility in the program. The student’s coursework is highly individualized and depends on his/her background and career aspirations.

Graduates of the MHS program have pursued medical school and training for other health care professions, biomedical science research and public health research and practice. Other graduates have gone on to forensic investigation, fertility research and business careers in the biotechnology field.

ScM in Biochemistry and Molecular Biology*

duration: 2 years**

application deadline: June 1

The ScM is a research-based program requiring nine months (one academic year) of coursework, the completion of original research under the guidance of a faculty mentor, and the writing of a research-based thesis.

*Applicants may not matriculate directly into this degree
**The time it takes to complete a degree may vary by student and circumstances

Department Chair
Pierre Coulombe, PhD

Academic Program Administrator
Shannon Gaston
410-955-3672
gaston1@jhu.edu

Degree Programs

› Master of Health Science (MHS) in Biochemistry and Molecular Biology
› Master of Science (ScM) in Biochemistry and Molecular Biology*
› Doctor of Philosophy (PhD) in Biochemistry and Molecular Biology

www.jhsph.edu/departments/biochemistry-and-molecular-biology
ScM students are admitted initially into the MHS program described above. In the third term, MHS students with an interest in research may request transfer to the ScM program. Approval is contingent upon the student identifying a research mentor and the agreement of the faculty. ScM students conduct original research during their second year, which continues until the satisfactory completion of the ScM thesis. Typically, ScM students present their findings at national meetings and publish their results in peer-reviewed journals.

Most ScM graduates continue on to medical school, advanced graduate study, or research positions in industry or elsewhere.

PhD in Biochemistry and Molecular Biology

duration: 5 years**

application deadline: December 15

The PhD program in the Department of Biochemistry and Molecular Biology is for individuals who wish to prepare for a career in academic research/teaching, government research, or industrial research.

In their first year, PhD students complete required coursework, participate in laboratory rotations and choose a thesis adviser.

In their second, students pursue courses in one of nine specialty areas:
› Biochemical Nutrition
› Bioinformatics
› Bioorganic Chemistry
› Biophysics
› Genetics
› Structural Biology
› Cellular and Molecular Biology
› Enzymology
› Reproductive Biology

Completed applications for the PhD program including GRE scores, are accepted up to January 12. Applications submitted by December 15 will receive expedited processing. Candidates for admission to the PhD program will be identified and invited to the department for an interview at the department’s expense.

Graduates of this program pursue research careers in academia, government and industry.

DEPARTMENTAL FUNDING

The department does not generally provide financial support for students pursuing the MHS degree. However, there are resources to help these students locate external funding. Most ScM students will qualify for a 75 percent tuition scholarship their second year.

All PhD students receive full financial support which covers tuition, fees, medical insurance and a stipend for living expenses. Graduate students are not required to serve as teaching assistants, although opportunities to teach are available if a student so desires.

> For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Elmer V. McCollum, chair of Biochemistry, discovers vitamin D and its role in preventing rickets.
1922

Student Spotlight

Hana’ Odeh is a fourth-year PhD student in the Department of Biochemistry and Molecular Biology. She came to the Bloomberg School from Amman, Jordan as a Fulbright Scholar seeking a master’s program.

“I was looking for a program in biochemistry and molecular biology that not only offered a PhD but also a master’s with some focus on research,” Hana says. “I found this program was very much tailored to that.”

Hana started in the Master of Health Science (MHS) program before transferring to the Master of Science (ScM) for a year of research. The collaborative nature and diverse research interests of the department made her want to stay.

“There’s an open door policy in our department that makes it very easy to talk about science with everyone,” she says.

Hana studies a protein called SUMO or small ubiquitin-related modifier. SUMOs regulate a variety of essential cell functions such as mitosis and DNA repair. Dr. Michael Matunis heads Hana’s lab where researchers seek to understand how SUMO regulates cellular functions and how changes in SUMO regulation can lead to disease. Hana’s own project focuses on understanding the role of SUMOylation in regulating membrane-associated functions.

Hana enjoys the precisions and problem-solving of lab work. She likes asking questions scientists have yet to find answers for. And there are always questions.

“The more you advance in research, the more you realize there’s a lot more to discover,” Hana says.
Biostatistics creates and applies methods for quantitative research in the health sciences. Our faculty conduct research across the spectrum of statistical science from foundations of inference to the discovery of new methodology to health applications. Our designs and analytic methods enable health scientists and professionals in academia, government, pharmaceutical companies, medical research organizations and elsewhere to efficiently acquire knowledge and draw valid conclusions from their ever-expanding sources of information. Our graduates have leadership careers as researchers and educators in academic departments of statistical science and in government and industry.

Graduates of the MHS in Biostatistics design research studies of human health and disease; design and implement data management systems; design and implement tabular and graphical displays of quantitative information; draw inferences from quantitative data; and use statistical reasoning and theory to deal effectively with non-standard statistical problems.

ScM in Biostatistics

duration: 2 years**

application deadline: Feb 1

The ScM in Biostatistics emphasizes statistical methods, biometry, statistical computing and epidemiology.

This ScM is intended for individuals who have demonstrated excellence at the undergraduate level in quantitative or biological sciences and a career as a professional statistician.

ScM candidates are required to take 64 course credits and pass a comprehensive written exam at the end of the first year. A thesis is required and usually involves applications of statistical methods to health or medical data.

ScM graduates assume positions in research or professional settings as scientific project coordinators and data analysts where they may design research studies of human health and disease; design and implement tabular and graphical displays of quantitative information; and/or perform major statistical analyses to address public health or statistical research questions.

**The time it takes to complete a degree may vary by student and circumstances
PhD in Biostatistics
duration: 5 years**
application deadline: Jan 15

The PhD in Biostatistics provides training in the theory of probability and statistics in biostatistical methodology. The program is unique in its emphasis on the foundations of statistical reasoning and in requiring its graduates to complete rigorous training in real analysis-based probability and statistics, equivalent to what is provided in most departments of mathematical statistics.

PhD candidates are required to pass a comprehensive written examination covering coursework completed at the end of their first year. Research leading to a thesis may involve development of new theory and methodology, or it may be concerned with applications of statistics and probability to problems in public health, medicine or biology.

Applicants should have completed undergraduate work in the biological, physical or social sciences or in mathematics and have strong quantitative skills. Knowledge of calculus, including differential equations, and familiarity with matrix algebra are highly desired.

PhD graduates conduct and publish original research on the theory and methodology of biostatistics; apply innovative theory and methods to the solution of public health problems; serve as expert biostatisticians on collaborative teams of investigators addressing key public health questions; and teach biostatistics effectively to health professionals and scientists.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES

Concurrent Doctoral Degree/ MHS in Biostatistics
This program provides doctoral students in other departments at the Bloomberg School the opportunity to pursue an MHS in Biostatistics concurrently with their doctoral program. To be eligible for the concurrent program, students must be accepted into one of the doctoral programs at the School. With their primary department’s approval, the student may then apply to the MHS program. Students in the concurrent program must complete the requirements of both master’s and doctoral programs. They may work with the Department of Biostatistics as well as their primary department adviser to suggest course sequencing and solve any problems that might arise.

DEPARTMENTAL FUNDING
There is limited funding for master’s students. The Bloomberg School offers a 75 percent tuition scholarship for those full-time, second-year master’s students who have made satisfactory academic progress and successfully completed 64 credits (a full-time course load) their first year.

All applicants to our PhD program, regardless of citizenship or nationality, are automatically considered for the 4–6 fully-funded slots the department has available each year.

The department also offers funded training programs in Statistical Methods in Environmental Epidemiology and Epidemiology and Biostatistics of Aging for U.S. citizens and permanent residents.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight

Fang Han is a recent graduate from the doctoral program in the Department of Biostatistics at the Johns Hopkins Bloomberg School of Public Health. He came to Hopkins from the University of Minnesota Department of Biostatistics, where he completed a master’s degree working with Professor Wei Pan on genomics and statistical theory. His undergraduate work was in probability and statistics from Peking University, a department well known for training several generations of leaders in probability and statistics.

Fang worked with Dr. Han Liu (Princeton) and Dr. Brian Caffo (JHSPH) on statistics for high dimensional datasets. In his research, Fang put forward a unified theory for high dimensional covariance inference. He was awarded a Google Research Fellowship in Statistics and won the Department of Biostatistics’s Margaret Merrell Award, recognizing outstanding research by a senior doctoral student. His work has won several society and conference awards notably including the David P. Byar Young Investigator Travel Award and ENAR Distinguished Student Paper Award.

In 2016, Fang will join the Department of Statistics at the University of Washington as a tenure track faculty member.

Raymond Pearl publishes evidence in Science that life expectancy correlates inversely with smoking levels. 1938
The Department of Environmental Health Sciences (EHS) comprises a dynamic group of faculty, staff and graduate students at the master and doctoral levels. The EHS Department engages in training, research and practice activities in two broad areas: Exposure Sciences and Environmental Epidemiology and Toxicology, Physiology, and Molecular Mechanisms. Faculty and students evaluate the impact of chemical, biological, physical and psychosocial exposures on human health spanning the breadth of environmental media including food, water and air and encompassing integrating concepts of the built environment and environmental sustainability. Our mission is to develop solutions to key challenges in local, national, and global environmental health, from the molecular to population-wide impacts. This is accomplished by investigating sources and distributions of exposures, mechanisms of action, biomarkers of exposure and biological effects, individual and population-based responses, and susceptibility factors at both the individual (molecular, cellular, organ, whole-body) and societal levels. In addition, environmental risks are assessed and prevention/intervention strategies are devised and evaluated. Our broad, multidisciplinary approach creates a collaborative and supportive learning atmosphere for students with diverse backgrounds and interests, while assisting them in developing lifetime careers in environmental and public health research and practice. Our graduates work in academic research institutions, health agencies, health departments and private industry organizations that are leaders in environmental and occupational health in the U.S. and in many countries around the world.

DEGREE PROGRAMS

MHS in Environmental Health

duration: 1 year**

application deadline: June 1

The MHS program in Environmental Health is designed to address the academic and practice needs of students in the diverse environmental health field. For some, it serves as a foundation and provides direction for further academic training in medical school or doctoral programs. For others, the knowledge base it provides allows them to successfully pursue positions that incorporate environmental health perspectives and practice activities. The program is based on coursework and uses as its capstone activity the writing and presentation of a literature-based essay on an environmental health topic chosen by the student and acceptable to the adviser. The three tracks are:

› Human Toxicology and Pathophysiology
› Population Environmental Health
› Sustainability and Global Environmental Health

In addition to facilitating the pursuit of doctoral degrees (MD, PhD), the MHS assists individuals in identifying career opportunities within the field of environmental health. Graduates of the program not currently pursuing advanced degrees hold environmental health-related positions in governmental and nongovernmental agencies and the private sector.

*Applicants may not matriculate directly into this degree
**The time it takes to complete a degree may vary by student and circumstances
ScM in Environmental Health*
duration: 2 years**
application deadline: June 1

ScM students are admitted initially into the MHS program described above. By the end of the second term, MHS students with an interest in research who have identified a departmental faculty member willing to serve as thesis adviser may apply for a transfer to the ScM program.

The ScM program in Environmental Health is intended for individuals with a serious interest in pursuing research in one of the various areas within Environmental Health. Typically, these students have previous hands-on experience in laboratory, field or population-based investigations that they would like to build upon. Coursework in the first year will provide a solid and broad foundational knowledge of environmental health upon which to base independent thesis research under the direction of their faculty adviser in the second year of the program. Similar to the MHS, the curriculum of the ScM is composed of a set of core courses and three track options from which students chose.

These are:
› Human Toxicology and Pathophysiology
› Population Environmental Health
› Sustainability and Global Environmental Health

Graduates of the program are well-prepared to transition directly into opportunities for further training and research through doctoral degree programs in their areas of their primary interest. For those wishing to apply their knowledge and research skills in the field of Environmental Health prior to pursuing advanced degrees, the ScM will position graduates to compete for research positions in the private sector, federal agencies and non-governmental organizations.

MSPH
Occupational and Environmental Hygiene Track
duration:
› full-time program, 18 months**
› online/part-time program, 2.5 to 4 years**
application deadline: June 1

The MSPH in Occupational and Environmental Hygiene is designed for students who wish to begin or advance professional careers in occupational and environmental risk assessment.

Training covers principles of risk analysis and management in the workplace and the general environment. The programs include coursework in the following areas: toxicology, epidemiology, biostatistics, occupational health, occupational and environmental hygiene, air pollution, environmental sampling techniques, program management and risk analysis.

This program is accredited by the Accreditation Board for the Engineering Technology (ABET) Applied Sciences Accreditation Commission and designed to prepare students to pass the Certified Industrial Hygienist (CIH) examination given by the American Board of Industrial Hygiene.

Students may enroll in either the full-time or online/part-time format. Both options confer the same degree and students must meet the same academic requirements.

Graduates go on to professional careers in occupational and environmental hygiene and program management within consulting, private industry and government sectors.

Toxicity Testing and Human Health Risk Assessment of Environmental Agents Track
duration: 1.5 to 2 years**
application deadline: June 1

The Master of Science in Public Health in Toxicity Testing and Human Health Risk Assessment of Environmental Agents is a professional degree program that provides individuals with the knowledge and skills needed to begin or advance their career as a public health professional in the evolving field of human health and environmental risk assessment.

This full-time program consists of 9 months of coursework that provide students with knowledge of the fundamental concepts and testing approaches used in classic risk assessment processes, as well as those used in the new paradigm for toxicity in the 21st Century. This will be followed by a 7 to 12-month internship with a government agency, non-governmental organization, industry or private sector group.

Students completing this program will also earn the Certificate in Risk Sciences and Public policy and will be eligible to sit for the examination to become Certified in Public Health (CPH) by the National Board of Public Health Examiners.

Graduates of the program will be prepared to play an essential scientific role at federal agencies and in the private and industrial sectors in the evaluation of toxicity testing data and their utilization in the regulatory process.
physiology, and immunology. They also obtain a broad background in environmental science through core courses in environmental health, epidemiology, biostatistics, and risk sciences.

The research done by graduate students and faculty has led directly to an enhanced understanding of the mechanisms responsible for the pathologic changes that occur in the early stages and during progression of many chronic diseases. This program track is aimed towards creating the next generation of scientists with laboratory skills to tackle complex environmental diseases for careers in academia, industry, and government.

Exposure Sciences and Environmental Epidemiology Track

The Exposure Sciences and Environmental Epidemiology Track offers exposure science and epidemiology research and training opportunities in all areas relevant to environmental and occupational health including air, water and food pollution, early life exposures, metals and synthetic chemicals, environmental microbiology, the built environment, global environmental health, molecular and integrated epidemiology, and the investigation of susceptibility factors and effective interventions. Studies that incorporate state-of-the-art exposure assessment, population-based approaches, and electronic health and environmental records are available together with access to multiple populations locally and around the world for students to conduct their research. Collaborative opportunities exist with the Toxicology, Physiology, and Molecular Mechanisms track, the departments of Epidemiology and International Health, and the Schools of Medicine and Engineering.

Graduates in Exposure Sciences and Environmental Epidemiology from the Department of Environmental Health Sciences work in academic research institutions, health agencies, health departments and private industry organizations that are leaders in environmental and occupational health in the U.S. and around the world.

BA/MHS or BA/MSPH

duration:
› BA/MHS, 5 years (for both degrees)**
› BA/MSPH, 5.5 years (for both degrees)**

special application requirement: applicants must be enrolled in the undergraduate program in public health studies at Johns Hopkins University

application deadline: July 1 between junior and senior undergraduate years

The Department of Environmental Health Sciences offers early graduate school admission to students enrolled in the public health studies program at the Johns Hopkins University Krieger School of Arts and Sciences. Graduate credits taken at the Bloomberg School while in the combined program apply towards the BA. One half of these credits (up to 16) may also be used to fulfill MHS or MSPH degree requirements. Students in this program will receive co-advising from both schools.

A waiver of the requirement for standardized test scores for matriculation into the master’s program will be granted to students who achieve a GPA of 3.0 or better in public health coursework taken at the Bloomberg School during their senior year while in the program. The application fee for BA/MHS or MSPH applicants is waived.

Both the MHS in Environmental Health and MSPH in Occupational and Environmental Hygiene (full-time program) participate in this program. Applicants must specify which program they wish to pursue in their application.

PhD in Environmental Health Sciences
duration: 5 years**

application deadline: Dec 15 (priority)

Students may pursue one of two tracks:
› Toxicology, Physiology, and Molecular Mechanisms
› Exposure Sciences and Environmental Epidemiology

Toxicology, Physiology, and Molecular Mechanisms

Globally, chronic diseases such as COPD, asthma, cancer, pulmonary fibrosis and cardiovascular diseases are major causes of morbidity and mortality, and environmental exposures are the key driver of these diseases. Basic and translational research in this track is focused on discovering toxicological, physiological, and molecular mechanisms that drive the pathophysiology of these diseases. Such understanding is required for developing prevention and therapeutic strategies to improve public health.

Graduate students engage in academic training in specific areas of environmental health with in-depth courses in toxicology,
ADDITIONAL EDUCATIONAL OPPORTUNITIES

Postdoctoral Positions
Postdoctoral students spend virtually all their time conducting research in the laboratory of their faculty mentor. While the focus is on conducting research, in consultation with their faculty mentor, postdoctoral students have the opportunity to take selected courses that may advance their training and research capabilities. Attending and giving seminars, journal clubs and participating in research retreats are also an integral part of the postdoctoral training experience.

Applicants for postdoctoral positions first identify a member of the EHS faculty with whom they wish to work and correspond directly with him/her. They become postdoctoral students in the program after confirming position availability with the faculty member, submitting a formal application to the program and receiving an official appointment letter.

CERTIFICATES
The Department of Environmental Health Sciences offers the following certificate programs:
- Certificate in Environmental and Occupational Health
- Certificate in Food Systems, the Environment and Public Health
- Certificate in Health and Human Rights
- Certificate in Humane Sciences and Toxicology Policy

For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

DEPARTMENTAL FUNDING
All qualified master’s and doctoral applicants are considered for scholarship opportunities. Please note that funding for non-U.S. citizens is very limited. The allocation process is very competitive and funding sources vary each year.

Funding sources are also limited for master’s programs, however, some candidates for the MSPH in Occupational and Environmental Hygiene (full-time) may be considered for partial tuition support. Most students in this program receive a tuition discount during the second year of the program.

The department participates with the Bloomberg School in the selection and award of scholarships for doctoral students.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight
When Cissy Li first looked into graduate toxicology programs, she didn’t know a lot about public health. Her undergraduate background was in chemistry and most of the programs she found were in schools of medicine. But Cissy applied to the Toxicology, Physiology, and Molecular Mechanisms PhD Track within the Department of Environmental Health Sciences at the Bloomberg School. When she was admitted, it was her fellow students who convinced her to come.

“The students I met here were all really nice, really smart and really dedicated to what they were working on,” she says. “They had high goals for their future careers and I wanted to surround myself with people who would positively influence my career and be part of my network in the future.”

The first year of her program was difficult as Cissy studied public health disciplines that were new to her, but now she sees the benefit.

“Being able to take the laboratory research and think about how it translates to benefiting people has been extremely helpful to me. It’s really impacted my thoughts of what I want to do in the future,” Cissy says.

Cissy’s current research is on the yeast pathogen, Candida albicans, and how antioxidant enzymes of that yeast and metals interact and play a role in the virulence of the organism. In the near future, Cissy plans to combine her experience in bench science with policy skills introduced through a Bloomberg School certificate in Risk Sciences and Public Policy. After graduation, she will be an ORISE fellow at the Food and Drug Administration analyzing scientific data to contribute to health risk assessments.

Alan M. Goldberg, John Fales and Ellen K. Silbergeld publish the first studies linking low-level lead exposure with hyperactivity and other childhood disorders.

Cissy Li
PhD Candidate
Environmental Health Sciences
Epidemiology is the study of the incidence and prevalence of diseases and of the determinants of health and disease risk in human populations. The Department of Epidemiology at the Bloomberg School is the oldest and among the largest epidemiology departments in the world. The mission of the department is to improve the public’s health by training epidemiologists and by advancing knowledge concerning the causes and prevention of disease and the promotion of health.

The department offers a broad selection of educational and research programs. These include infectious and chronic diseases encompassing cardiovascular and cerebro-vascular diseases, respiratory diseases, digestive diseases, congenital malformations, cancer, and occupational diseases. Human genetics, statistical epidemiology, social and behavioral studies, health disparities and health outcomes, are of major interest.

In addition to coursework, students are required to attend weekly seminars. During these seminars, speakers from other institutions and agencies discuss applied epidemiological problems and faculty engage in discussion on their current or planned research.

All degree candidates in the department are automatically members of the Epidemiology Students’ Organization (ESO). As a faculty- and administration-independent organization, its mission is to promote the professional development of students in the department and to act as an advocate for student needs.

**DEGREE PROGRAMS**

**MHS and ScM**

**duration:** 2 years**

**application deadline:** Feb 1

The department provides broad training in general epidemiology and in one of eight tracks detailed on the next page. Both masters’ programs in epidemiology consist of coursework and a thesis and are campus-based. Master’s students complete a minimum of 64 credits in epidemiology and elective courses, pass a written comprehensive exam, write a 30-50 page publishable manuscript and present their research in a master’s poster symposium. The programs differ in breadth and scope depending on the student’s background and research focus within and after the program. The MHS is more practice-based and permits secondary data analysis for the thesis. The ScM is more theory/research-focused and generally requires original research for the thesis.

Graduates of both programs work in a variety of disciplines. Some go on to work in the field; in city, county or state health departments; or in academic research institutions. Students often continue their studies through additional master’s, doctoral or medical degree programs.

*The time it takes to complete a degree may vary by student and circumstances*
ated with in-utero and postpartum exposure

exploring long-term complications associ-

Professor Taha Taha, on his doctoral thesis

Jim is now working with his academic adviser,

have been privileged to work with leaders in

The professional connections you gain

International Fellow to complete his Master of

University School of Medicine before join-

of HIV-1. Jim studied medicine at Makerere

ten years experience researching the preven-

A second year PhD student in the Department

students who wish to conduct work in older

Epidemiology† is intended for

Student Spotlight

A second year PhD student in the Department

of mother-to-child transmission (PMTCT) of HIV-1. Jim studied medicine at Makerere

University School of Medicine before join-

ing the Bloomberg School as an NIH Fogarty

International Fellow to complete his Master of

Health Science.

“The professional connections you gain

through the Hopkins family have a global

reach,” Jim says. “Through such networks, I

have been privileged to work with leaders in

the field of pediatric HIV-1 free survival.”

Jim is now working with his academic adviser, Professor Taha Taha, on his doctoral thesis
exploring long-term complications associ-

ated with in-utero and postpartum exposure

or throughout the world. Doctoral students
complete a minimum of 128 credits, serve as

Teaching assistants, pass a written com-

prehensive exam and two preliminary oral

exams, present their proposed research to

their research group, attend a professional

conference, and write and publicly defend

an independent research project for their

dissertation.

Our PhD and ScD graduates work in health
departments, health agencies and in aca-
demic research institutions.

MHS, ScM, PhD and ScD Tracks

Cancer Epidemiology† offers a vibrant mix

of didactic training, student-faculty discus-
sions and research experience in cancer

etiology, prevention and control. Three

integrated training tracks are offered: cancer

etiology and prevention, genetic epidemiol-

ogy of cancer, and cancer control. Course

offerings include “Etiologic and Preventive

Aspects of Cancer” and “Methodologic

Issues in Cancer Epidemiology.”

Cardiovascular Disease and Clinical

Epidemiology† focuses on the use of

epidemiologic methods in clinical research

and practice. This track also integrates

knowledge on all aspects of cardiovascular
disease: biology, behavior, treatment and

prevention. Training emphasizes a collabor-

ative approach and active participation in

research. A number of large ongoing cohort

studies and clinical trials provide a rich envi-

ronment for research.

Program activities are enhanced by the

close collaborative relationships between

the Department of Epidemiology and clinical
departments of the Johns Hopkins School of

Medicine and the Johns Hopkins Hospital.

Clinical Trials and Evidence Synthesis

is devoted to the promotion of clinical trials

as a method of evaluation of preventive and

therapeutic approaches to health problems.

The track promotes the use of clinical trials

as a method of evaluation and to facilitate

research and teaching efforts in relation to

the practice of clinical trials and other stud-

ies involving the evaluation of preventive and

therapeutic approaches to health problems.

Environmental Epidemiology

concentrates on the epidemiology of diseases asso-

associated with industrial and other occupational

exposures, as well as with environmentally

induced illness in general. Studies are carried

out in conjunction with industry and govern-

ment and provide excellent opportunities for

student research. Many collaborative efforts

exist with the Department of Environmental

Health Sciences.

Epidemiology of Aging† is intended for

master’s, doctoral and postdoctoral stu-

dents who wish to conduct work in older

populations. It aims to provide advanced

training to epidemiologists interested in

issues in Cancer Epidemiology. “Aspects of Cancer” and “Methodologic

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induced illness in general. Studies are carried

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ment and provide excellent opportunities for

student research. Many collaborative efforts

exist with the Department of Environmental

Health Sciences.

Epidemiology of Aging† is intended for

master’s, doctoral and postdoctoral stu-

dents who wish to conduct work in older

populations. It aims to provide advanced

training to epidemiologists interested in
the major public health and clinical issues relevant to older adults, and the conceptual and methodological framework that form a basis for studies of older populations. In the Epidemiology of Aging track, faculty and students discuss the public health import of aging societies, and the constellation of changes associated with aging that make health issues for older persons important and unique. This track also focuses on the epidemiology of major geriatric syndromes, including frailty, disability, falls, and cognitive decline in older populations. Significant attention is dedicated to the understanding of opportunities for primary, secondary, and tertiary prevention in the context of the marked health status heterogeneity among older adults.

**General Epidemiology and Methodology** offers research and training opportunities in almost all areas of chronic disease epidemiology, including cardiovascular diseases, cancer and diseases of childhood and includes advanced methodology training in epidemiologic methods as well as providing individualized or customized training in statistical epidemiology, pharmaco-epidemiology and social epidemiology.

**Genetic Epidemiology** focuses on the study of genetic and environmental factors, and their interaction in disease and normal variation. Broadly based training, utilizing the combined staff and facilities of the Bloomberg School and the School of Medicine, and the faculty of Arts and Sciences, is available through the Department.

**Infectious Disease Epidemiology** provides knowledge and background needed for teaching and investigating the epidemiology of infectious diseases. Emphasis is on the principles and methods that can be applied to infectious diseases caused by all classes of organisms in a variety of settings. Modeling, societal and contextual analysis of infectious diseases are major focuses within the track.

For more on the tracks offered through the Department of Epidemiology, visit www.jhsph.edu/departments/epidemiology/tracks

† Indicates NIH Training Grant opportunities for pre and postdoctoral qualified applicants (i.e. U.S. citizens or U.S. permanent residents). Please visit the website for further information.

**DrPH in Epidemiology**

- Duration:
  - full-time program, up to 7 years**
  - part-time program, up to 9 years**
- Special application requirement: must have an MPH or equivalent degree
- Application deadline: Dec 1

The DrPH is an advanced professional degree designed for the student who intends to pursue a leadership career as a public health professional.

The DrPH in Epidemiology is offered on a full- or part-time basis. The part-time DrPH requires a prior or concurrent full-time year of coursework at Johns Hopkins. Applicants are expected to develop research in one of the areas listed above and customize their programs based on their professional goals.

DrPH students complete written and oral exams, present proposed research and complete a problem-based thesis. The doctoral programs differ in that the PhD and ScD are focused on preparing research that may influence public health leaders to effect change, while the DrPH prepares these public health leaders to both conduct their own research and evaluate that of others to effect change directly in the communities they serve.

For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

**DEPARTMENTAL FUNDING**

The Department of Epidemiology is committed to helping students pay for their graduate education. While, we have limited sources of student support, the School provides Master’s Tuition Scholarships (MTS) in the amount of 75 percent tuition for students who have completed the first year curriculum, 64 credits at JHSPH, with a grade point average of 3.0 and who have passed the written comprehensive exams. The MTS covers four terms only and is awarded when students have registered for a minimum of 12 credits per term.

The Department is committed to providing a minimum of 50 percent tuition for all incoming full-time doctoral students beginning in the first term for up to five years of their program provided they maintain a 3.0 grade point average in their courses and continue to make progress in their research according to the timelines approved by their adviser and the School.

We offer training grants, programs and endowments which provide some financial assistance for those doctoral students who are selected based on eligibility and excellence.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

Former Epidemiology faculty Alexander Langmuir, MPH ’40, establishes the CDC epidemiology section, renamed the Epidemic Intelligence Service in 1951, to protect against biological warfare and manmade epidemics. 1949
Graduate Training Program in Clinical Investigation

The purpose of the Graduate Training Programs in Clinical Investigation (GTPCI) is to nurture and empower the clinical research community. The first of its kind in the U.S., this program was created in 1992 to address the growing national concern over the shortage of academic clinical investigators by training postdoctoral fellows and faculty to be more effective clinical scientists.

The clinical investigation degrees are a joint enterprise of the Johns Hopkins University School of Medicine and the Johns Hopkins Bloomberg School of Public Health. They were designed to provide competence in a wide variety of skills necessary for successful clinical research. These programs are targeted toward internal physicians, postdoctoral fellows and/or faculty in clinical departments of the School of Medicine. Students with other backgrounds may also be considered for the MHS track of the GTPCI.

The GTPCI seeks students from a variety of academic and professional backgrounds. Our best candidates demonstrate a combination of strong analytical and quantitative skills as well as clinical research experience. Each new trainee is expected to bring new energy and perspectives that can enrich our diverse academic environment. Detailed curriculum information can be found at www.jhsph.edu/offices-and-services/practice-and-training/graduate-training-programs-in-clinical-investigation/degrees/curriculum.html.

The majority of our graduates hold academic appointments in medicine. Others hold positions in private practice, pharmaceutical development and federal agencies.

DEGREE PROGRAMS

MHS in Clinical Investigation

duration: 1 year
application deadline: Mar 1

The MHS in Clinical Investigations is a one-year degree awarded to GTPCI candidates who specifically apply for this track. It is not necessary for MHS applicants to have an appointment with the Johns Hopkins Medical Institution. Health professionals with an advanced degree who are interested in pursuing a career in patient-oriented research may apply for the MHS degree in Clinical Investigation.

PhD in Clinical Investigation

duration: 4 years**
application deadline: Mar 1

The PhD in Clinical Investigation is our flagship program and designed for those candidates matriculated in a Johns Hopkins clinical postdoctoral program or have a Johns Hopkins faculty appointment. The usual postdoctoral career track is a four-year program, which leads to both clinical board eligibility in a medical discipline and the PhD in Clinical Investigation. One full year of didactic instruction is ordinarily taken after an initial clinical year in a medical or surgical specialty, and provides the scientific grounding for subsequent original research. This research effort is jointly mentored by faculty from the program and a preceptor from the fellow’s home division or department.

Upon successfully completing didactic instruction and demonstrating substantial achievement in clinical investigation in the
form of an acceptable PhD or ScM thesis, the candidate is awarded the PhD or ScM degree.

Note: PhD candidates who cannot fulfill the full set of requirements for a PhD because of time restrictions, unanticipated research difficulties or late shifts in thesis projects may be considered for a Master of Science (ScM) degree. It’s not possible to matriculate directly into the GTPCI ScM. Candidates interested in applying for a master’s level degree program should apply to the MHS track.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES
For scientists and clinicians who don’t have the time or resources to pursue a degree program, the GTPCI offers the Science of Clinical Investigation Training Program. This program is offered both online and on-site in the evenings.

For more information on the Science of Clinical Investigation Training Program, please visit www.jhsp.edu/academics/graduate-training-programs-in-clinical-investigation/advanced-training

FUNDING
GTPCI is one of 60 national recipients of an NIH-sponsored CTSA KL2 Award to support institutional career development programs for physicians and dentists, encouraging them to become independent, patient-oriented clinical investigators. This Multidisciplinary Clinical Research Career Development Program funds clinical research training for a broad group of physicians, dentists and other scientists who have a doctorate in a health-related field, including pharmacy, nursing, epidemiology and behavioral sciences. The Johns Hopkins KL2 program will provide career development support for postdoctoral and junior faculty physicians or dentists from within Johns Hopkins Medical Institutions. Visit www.jhsp.edu/academics/graduate-training-programs-in-clinical-investigation for details.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsp.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight
A neurologist, Dr. Doris Leung came to Johns Hopkins as a postdoctoral research fellow studying muscular dystrophy at the Kennedy Krieger Institute. She wanted to start a project studying muscular dystrophy through MRI scans, but felt limited by the type of analysis and research she could do.

“I wanted to push past to the point where I could analyze my own data, design studies and really have a more informed methodology in approaching clinical research,” Doris says.

Doris first enrolled in an advanced training program called the Science of Clinical Investigation. It was just one offering within a larger program training clinicians to do better clinical research. That program led Doris to commit to the PhD program in Clinical Investigations through GTPCI.

“I feel like it’s greatly advanced my ability to do my own research and I’m really glad that I did it,” she says. “It’s always a scary decision to go back to this education phase when you’ve been out of it for a while, but I have no regrets.”

Doris is applying the clinical research skills she’s learned to continue studying facioscapulohumeral muscular dystrophy. She’s using MRI scans to look for ways to measure progression of the disease.

“One of the things I really like is that I grew this project from an idea that came from our patient population and built it from there,” she explains. “I think a lot of us, to get our start in research, inherit projects or jump on projects that are already in a more advanced stage of development. But I went out, found collaborators, opened an account with the MR research division, and learned how to run the MRI scanner. I applied for a little bit of funding with my research mentor to pay for some of the scan time, recruited everybody and scanned them all.”

Doris collected enough data through her initial study to apply for additional funding. She recently received an NIH award to conduct a larger, longitudinal cohort study.

Doris Leung
PhD Candidate
Clinical Investigation
Department of Health, Behavior and Society

The Department of Health, Behavior and Society is dedicated to research and training that advance scientific understanding of the impact of the societal context and behavior on health.

The department focuses on the behavioral aspects of the top international and domestic causes of death and disability and feels a special responsibility to address public health challenges that disproportionately impact urban communities. The specific public health areas we address include smoking, obesity, diabetes, unintentional injury, violence, cancer, HIV/AIDS, sexually transmitted diseases (STDs), substance use, respiratory diseases and emerging infectious diseases, as well as the improvement of quality of life.

The department is unique in that it truly works at multiple levels of intervention—from the individual to the community. Particular strengths are in the areas of health communication and health education, the development of community-level interventions and the behavioral aspects of genetics and genetic counseling.

The department conducts research in Baltimore, in the U.S., and in over 45 countries around the world.

DEGREE PROGRAMS

MHS in Social Factors in Health
duration: 1.5 to 2 years**

application deadline: Feb 15

The MHS in Social Factors in Health is an advanced research degree for students with undergraduate exposure to social and behavioral sciences and/or public health, interested in further training in the theory and methods in this area.

The focus of the MHS in Social Factors is on integrating and applying a broad range of knowledge and analytical skills in social aspects of public health, with an emphasis on contemporary health problems. The program combines classroom-based coursework, seminars and independent study, development of a research plan, completion of a mentored research project and a master’s research paper presenting original research.

The degree is intended to prepare students either for further doctoral training or to work in a public health research or policy position.

ScM in Genetic Counseling
duration: 2.5 years**

application deadline: Jan 5

The ScM in Genetic Counseling prepares graduates for a career in genetic counseling with an emphasis on clients’ psychological and educational needs. A joint effort of the department and the National Human Genome Research Institute at the National Institutes of Health, the program provides a solid foundation in conducting social and behavioral research related to genetic counseling and teaches the skills necessary for graduates to educate health care providers, policymakers and the public about genetics and related health and social issues.

**The time it takes to complete a degree may vary by student and circumstances
The curriculum consists of coursework in the areas of human genetics, genetic counseling, health education, communication, ethics, public policy and research methodology. The program also requires a minimum of 400 contact hours of supervised clinical rotations and a thesis study.

The ScM in Genetic Counseling is accredited by the American Board of Genetic Counseling and graduates are eligible to sit for board examinations after completion of the program.

Graduates find careers in a range of settings, including health departments, government agencies, and nonprofit and for-profit organizations.

Students who successfully complete this degree program are eligible to sit for the national certification exam to become a Certified Health Education Specialist.

**MSPH in Health Education and Health Communication**

duration: 1.5 to 2 years**
application deadline: Feb 1

The MSPH in Health Education and Health Communication is designed for individuals seeking specialized formal academic training in health education, health promotion and health communication.

The curriculum provides a solid foundation in behavioral sciences principles and theories, along with advanced skills in program planning, implementation and evaluation. The program consists of one academic year of coursework followed by a minimum six-month field placement and a culminating essay. Part-time applicants are permitted in this program.

Graduates find careers in a range of settings, including health departments, government agencies, and nonprofit and for-profit organizations.

**PhD in Social and Behavioral Sciences**

duration: 4 to 7 years**
application deadline: Dec 1

The doctoral program in Social and Behavioral Sciences is designed for individuals seeking training as social and behavioral scientists, health educators and health promotion or communication specialists in the public health arena.

The curriculum emphasizes the application of behavioral and social science perspectives to contemporary health problems. Rigorous training in research methodology, program design and evaluation are also key elements of the curriculum. In addition to coursework, students complete a written exam at the end of the first year and gain experience in research skills and approaches. With faculty guidance, students develop and present a thesis protocol in an oral exam. The final thesis defense is conducted as an oral exam that includes a public presentation.

Graduates find careers as faculty members in academic settings as well as a variety of research careers in health departments, government agencies and nonprofit organizations.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions
ADDITIONAL EDUCATIONAL OPPORTUNITIES
The department offers the following certificate programs:
› Community-Based Public Health Certificate
› Global Tobacco Control Certificate
› Health Communication Certificate
› Health Education Certificate

For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

DEPARTMENTAL FUNDING
The department is committed to seeking opportunities that will allow it to provide financial support to its students.

First-year MSPH and MHS students are eligible for a limited number of partial tuition scholarships to be used toward full-time study. All full-time, second year MSPH and MHS students in good academic standing are eligible for a Master’s Tuition Scholarship (MTS) from the Bloomberg School. The MTS provides 75 percent tuition support during year two of the program.

The financial support for ScM students is determined by an agreement with NIH and communicated to incoming students.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight
Daniel Siconolfi discovered his passion for research during an undergraduate internship. He was inspired by journalism projects and interviews with local activists and began volunteering at an HIV research center, where his weekly shift entailed transcribing qualitative interviews and conducting outreach at events and neighborhoods in NYC. “I fell in love with public health research,” he explains, “Before then, I didn’t know that there was a career path where I could meld my interests in health, science, and social justice. Public health was it.’’

Dan completed his MPH at NYU, and spent the next 4 years working on HIV research studies in NYC before applying to doctoral programs. Dan chose the PhD program in the Department of Health, Behavior, and Society at the Bloomberg School because of its reputation and the faculty expertise in mental health, substance use, and structural determinants of health.

Dan seeks to incorporate quantitative, qualitative, intersectional, and critical perspectives to illuminate the underlying social and structural factors that shape the health of marginalized groups. His research focuses on the health of gay, bisexual, and other men who have sex with men, specifically looking at within-group health inequalities. He explains that while there is a growing body of literature that documents health disparities among sexual minorities when compared to heterosexuals, there are gaps in what’s known about the gradients of health within sexual minority populations. For his dissertation, Dan is using latent variable models to examine trajectories of mental health among young men, with attention to the social factors that might influence resilience or decrements in mental health over time.

Dan has been involved in research at the Lighthouse, has served as a teaching assistant for several courses, and has been a member of the LGBT Working Group, which seeks to raise the visibility of LGBT health issues. After he completes the degree, Dan intends to pursue an academic career in public health research and teaching.
The mission of Health Policy and Management is to advance the public’s health through the development, implementation and evaluation of effective health and social policies. The department emphasizes the importance of sound management and creative leadership in finding effective and equitable solutions. The department’s commitment to this mission is realized through advancing research, education and practice in the following areas:

› Health Services Research and Policy—addressing the organization, financing and delivery of both curative and preventive services, and their impact on access, quality, outcomes and cost, particularly for the most vulnerable

› Health and Public Policy—addressing the development, analysis, implementation and evaluation of public policies to prevent disease and injury, and to promote the health and quality of life of populations

› Health Economics and Policy—addressing the concepts and methods of economic analysis to study how clinical and public health resources are and should be allocated

› Bioethics and Health Policy—addressing research and policy related to the ethics of public health practice, health policies, and public health research

› Leadership and Management—addressing the challenges faced by health organizations in today’s rapidly changing environment

The department is responsible for training public health professionals and researchers in diverse disciplines and fields relevant to the translation of public health sciences into practice and policy. The goal is to train researchers and public health leaders to become agents of change to promote the public’s health through effective, efficient and equitable policies, programs and services.

DEGREE PROGRAMS

MHA

duration: 2 years**
application deadline: Feb 1

The MHA is a professional degree preparing students for management and leadership positions in the healthcare sector. In today’s rapidly changing environment, health care managers have a unique opportunity to improve the health care of the public through designing and managing high-quality, cost-effective services. The program emphasizes the analytical, technical and management skills required to improve the performance of healthcare organizations and systems. Because the program is located in a school of public health, students develop skills in working with physicians, nurses and other health professionals with whom they share classes. The program is an accelerated one that requires one academic year of coursework and an 11-month field placement in an appropriate setting. Graduates of the program have progressed into a variety of positions in the healthcare sector and consulting firms.

The program is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME).

Program Contact: Teresa Schwartz, MS, teresa.schwartz@jhu.edu.
MHS in Health Economics

duration: 1 year**
application deadline: Mar 1

The MHS in Health Economics is offered jointly by the departments of Health Policy and Management and International Health.

The program provides students with a solid foundation in general health economics and evaluation methods necessary to promote the efficient and equitable allocation of health care resources in public health and to identify relevant regulatory policies, strategies and interventions. Such methods are important in designing and assessing preventative and curative services, and are relevant to health care systems around the globe. Ideal applicants should have some experience in economics and a strong background in math with awareness of both calculus and linear algebra.

Prospective students apply to one of the two departments based on academic and career interests. However, students from both departments participate in a common core of classes spanning health economics, economic evaluation, econometrics, statistics and epidemiology. Students have an opportunity to specialize, based on interests and experience, by choosing from elective courses that focus on U.S. or non-U.S. settings.

Graduates of this program are well positioned to pursue doctoral training in economics and health policy or careers as analysts in both public and private sectors.

Program Contact: Christine King, MSEd christine.king@jhu.edu.

MSPH in Health Policy

duration: 2 years**
application deadline: Feb 1

The MSPH in Health Policy is designed for individuals seeking specialized training in health policy to establish or expand their careers as health policy analysts.

The program requires one year of academic coursework, followed by a nine-month field placement of full-time employment in a professional health policy setting. The course curriculum and field placement experience provide students with a rich understanding of U.S. health policy, knowledge of the policy choices and the collaborative nature of policy implementation involving both governmental and nongovernmental factors.

Beyond rigorous academic training, students develop real world skills through an internship, and by incorporating into coursework the analysis of actual public problems and the evaluation of efforts to address these problems. The program distinguishes itself by the one-on-one mentoring of graduate students by faculty, engaging students in hands-on policy research. The curriculum includes a core policy sequence (4 courses), an internship, and five elective courses, which can be selected from throughout the university including the Schools of Arts and Sciences, Public Health, Education, Business, Advanced International Studies, and Engineering. Graduates of the program pursue a wide range of careers in government, nonprofits, think tanks and consulting firms in the U.S. and abroad.

Program Contact: Carey Borkoski, PhD, cborkoski@jhu.edu.

BA/MSPH in Health Policy

duration: 6 years**
special application requirement: applicants must be enrolled in the undergraduate program in public health studies at Johns Hopkins University
application deadline: July 1 between junior and senior undergraduate years

Undergraduate students currently enrolled in the public health studies program at the Johns Hopkins University Krieger School of Arts and Sciences have the unique opportunity to gain early graduate school admissions through the Bloomberg School’s Department of Health Policy and Management.

Standardized test scores are not required for admission review. A minimum GPA of 3.3 in the public health core courses and an interview are required. The application fee for BA/MSPH applicants is waived.

MPP

duration: 2 years**
application deadline: Feb 1

The MPP is a multidisciplinary degree that equips students with the critical skills required to analyze public problems and policy choices, formulate implementing mechanisms, and evaluate the results. The curriculum blends analytic perspectives from statistics, economics, sociology, political science, and philosophy into a coherent discipline, which students then apply to substantive fields of policy. The program strikes a balance between quantitative and qualitative approaches to the analysis of policy problems, and explicitly considers the ethical and value dimensions inherent in making processes by which public policy decisions are made, training in basic quantitative and analytic methods, and the skills needed to critically assess and apply research findings to the development and analysis of health policy. The curriculum offers adequate flexibility to allow students to pursue their individual interests in the health policy arena.

Graduates of this program establish careers in the federal government, advocacy organizations, consulting firms, think tanks, foundations and other arenas where health policy is at the forefront.

Program Contact: Christine King, MSEd, christine.king@jhu.edu.
Please note that admitted students must complete the BA degree before formally enrolling in the Bloomberg School of Public Health.

Students admitted to the BA/MSPH program must complete a year of coursework while officially enrolled in the MSPH program in addition to the field placement.

Program Contact: Christine King, MEd, christine.king@jhu.edu.

PhD

duration: 4 to 6 years**

application deadline: Dec 1

The Department of Health Policy and Management offers a research-oriented, PhD program with four concentrations: Bioethics and Health Policy, Health Economics and Policy, Health Services Research and Policy, and Health and Public Policy. These programs are offered on a full-time basis, requiring students to be physically-based at Johns Hopkins’ East Baltimore campus for the duration of the coursework portion of the program.

Bioethics and Health Policy

The PhD in Bioethics and Health Policy is designed for students who want bioethics to be the distinguishing characteristic of their public health careers. This bioethics program differs from most others in two important ways: first, it focuses on bioethics as it relates to moral questions in public health and health policy (rather than, for example, in medical or bedside dilemmas); and second, it provides rigorous training in quantitative and qualitative empirical research methods.

Students and faculty examine ethical issues in population health practice, research and policy. Examples of these issues include ethics and emergency preparedness, domestic and international research ethics, genetic screening policy, HIV screening, social justice and resource allocation.

Health Economics and Policy

The PhD in Health Economics and Policy prepares doctoral students to conduct innovative and rigorous research on various issues related to health and health care – such as the behavior of patients, providers, and insurers and the cost-effectiveness of various technologies. The PhD program’s curriculum is grounded in applied microeconomic theory, economic evaluation, and applied econometrics. It incorporates PhD coursework from the Johns Hopkins Krieger School of Arts & Sciences Economics Department. Student research generally focuses on econometric analyses of hypotheses generated by economic theory or quantitative evaluation of the effectiveness of various interventions.

Health Services Research and Policy

Health care systems are under extreme pressure. Costs are rising, quality and outcomes are not optimal, many vulnerable groups have inadequate access. Payment and delivery of healthcare is evolving rapidly. There is a great need for doctorally prepared researchers and senior policy analysts to address these issues within public and private organizations and to lead health care reform in the U.S. and globally.

The Health Services Research and Policy PhD training program provides a firm grounding in public health principles, research and evaluation methods and policy analysis. In this program, students acquire the conceptual and methodological tools needed to conduct research, program evaluation and policy analysis and synthesis to advance the state of knowledge.

Health and Public Policy

Finding solutions to public health problems through the development, analysis, implementation, and evaluation of health policies is the focus of the PhD program in Health and Public Policy. Students in this program examine challenging public health issues, including obesity, transportation, alcohol, prescription drug misuse, firearms, injury, and the environment, and learn how political, social economic, and legal factors affect health and health policies. Students acquire skills that enable them to conduct rigorous research to inform policy solutions, effectively translate their scholarly work to policy and practice, and emerge as leaders in public health policy. Faculty employ an interdisciplinary approach to their teaching, research, and practice which is reflected by their backgrounds in medicine, epidemiology, political science, sociology, law, environmental health, and the risk sciences.

PhD Program Contact: Mary Sewell, marysewell@jhu.edu.

DrPH in Health Policy and Management

duration: 6 to 8 years**

special application requirement: must have an MPH or equivalent master’s degree and at least three years of work experience

application deadline: Dec 1

The focus of the DrPH Program is on integrating and applying knowledge and skills in leadership, practice, policy analysis, program and budget management, and communication, with an emphasis on the application of policy, practice, and management perspectives to contemporary health problems. The DrPH concentration in HPM is focused on measuring, monitoring and improving the clinical and financial performance of health services organizations, as well as training leaders for organizational change. It is principally a part-time program, designed for students working full-time who have completed master’s level training prior to starting the doctoral program. It is expected that students will complete the required coursework over a four-year period, followed by the written comprehensive and preliminary oral examinations which are completed prior to beginning substantive work on the dissertation. It is possible to complete the program within a six-year period although students have up to nine years, if needed, to completed the degree.

There are three tracks within the HPM DrPH: Healthcare Management and Leadership, Health Informatics, and Quality Outcomes and Patient Safety.

Program alumni occupy middle and senior-level positions in hospitals, other health services delivery organizations, consulting firms, as well as U.S. Government and international organizations.

DrPH Program Contact: Mary Wisniewski, mary.wisniewski@jhu.edu.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions
ADDITIONAL EDUCATIONAL OPPORTUNITIES

Certificates
The department offers the following certificate programs:
› Certificate in Health Finance and Management
› Certificate in Injury and Violence Prevention
› Certificate in Public Health Preparedness
› Certificate in Health Disparities and Health Inequalities
› Certificate in Bioethics and Public Health Policy
› Certificate in Gerontology
› Certificate in Public Health Informatics
› Certificate in Quality, Patient Safety and Outcomes Research
› Certificate in Risk Sciences and Public Policy

For more information regarding certificates, flip to page 50 or visit www.jhsph.edu/academics/certificate-programs

Institutes
The department also provides short-term, intensive educational opportunities for public health practitioners and other professionals through several institutes. The HPM Summer Institute, offered in June in Baltimore, Md.; the Winter Institute, offered in January in Baltimore, Md. and Washington, D.C.; and the Fall Institute, offered in November in Barcelona, Spain, provide graduate academic courses in a compressed format.

For further information on institute offerings, visit www.jhsph.edu/departments/health-policy-and-management

DEPARTMENTAL FUNDING

Master’s Programs
During the field placement year of the professional MHA and MSPH in health policy programs, all eligible students receive a 75 percent Master’s Tuition Scholarship (MTS). No special application for funding is required for consideration. Eligibility is determined by each program.

No funding is available for the academic MHS in health economics.

MPP applicants are considered for MPP merit scholarships ranging from 20 to 45 percent of tuition. This funding is based on the applicant’s submitted admissions material and is renewable for the second year of study as long as the student remains in good academic standing.

Doctoral Programs
The department offers a limited number of NIH-sponsored predoctoral fellowship opportunities for U.S. citizens and permanent residents. Note that predoctoral designation is limited to those candidates without doctoral degrees who are applying to the full-time PhD or DrPH degree programs. These positions include tuition and stipend support for candidates in the areas of health services research, violence research and occupational injury control. Applicants interested in being considered for one of these training grant opportunities should discuss their interest within their application statement.

In addition, a limited number of departmental scholarships, also providing tuition and stipend support, are available. No special application for funding is required. Applicants are also strongly encouraged to review the eligibility criteria for the Bloomberg School’s Brown Scholars Programs.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight

Kelleigh Eastman was working as a massage therapist when she was inspired by an undergraduate course in public policy. The desire to deeply impact health on a larger scale led her to the Bloomberg School.

Now she is interning in Senator Barbara Mikulski’s office, a hands-on opportunity that would have slipped through her fingers if she hadn’t turned her attention to Health Policy and Management.

“My coursework definitely prepared me for this,” says Kelleigh, who earned her MSPH in May 2015, having already completed the Food Systems, Environment and Public Health certificate program. “All the knowledge fell into place when I started watching the Senate floor every day and meeting with constituents.”

This last chance to work in Mikulski’s office has been “incredible,” says Kelleigh, alluding to the fact that the Maryland Democrat who has served in Congress for 30 years—longer than any other woman in history—plans to retire in December 2016.

“This internship has been extremely valuable in helping me understand the day-to-day of Capitol Hill and the policy-making process on the federal level,” she says.

In her short time on the Hill, Kelleigh has seen how difficult it is to pass legislation based on scientific evidence. Undeterred, she rolls up her sleeves to knead research into her writing for the sake of public health. Biostatistics and epidemiology classes have helped her interpret technical research papers that could bolster Mikulski’s platform.

“Senator Mikulski is a real inspiration to me,” says Kelleigh.
The Department of International Health (IH) at the Bloomberg School seeks to understand health problems and develop affordable means of disease reduction and health protection in underserved populations of the world. As the oldest and largest department of international health in the world, the department is uniquely equipped to develop affordable ways of protecting and improving health through health services and behavioral changes.

International health draws on all relevant public health disciplines for application in global settings and emphasizes master’s and doctoral training programs for students with international and cross-cultural interests, focusing principally on traditionally disadvantaged and underrepresented communities. Faculty and student research includes implementing cost-effective strategies for global health care delivery; designing health promotion interventions for disadvantaged communities; conducting laboratory studies to develop vaccines; performing clinical trials, prevention trials, behavioral studies; developing policy for infectious disease control; and developing methods to assess nutritional status and treat nutritional diseases. The department is composed of four program areas and ten centers, institutes and units.

The Department Chair
David Peters, MD, DrPH, MPH

Academic Program Manager
Cristina G. Salazar, MA
410-955-3734
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Degree Programs
- Master of Health Science (MHS) in Health Economics
- Master of Science in Public Health (MSPH) in
  - Global Disease Epidemiology and Control
  - Health Systems
  - Human Nutrition
  - Social and Behavioral Interventions
- Master of Arts (MA)/Master of Science in Public Health (MSPH) (with SAIS)
- Master of Science in Public Health (MSPH)/Master’s International (with Peace Corps)
- Master of Science in Public Health (MSPH)/Registered Dietitian (RD)
- Doctor of Philosophy (PhD) in
  - Global Disease Epidemiology and Control
  - Health Systems
  - Human Nutrition
  - Social and Behavioral Interventions

www.jhsph.edu/ih

**The time it takes to complete a degree may vary by student and circumstances.

DEGREE PROGRAMS

MHS in Health Economics
duration: 1 year**
application deadline: Mar 1

Health Economics applies economic theories of consumer, producer, and social choice to understand the behavior of individuals, health care providers, public and private organizations and government decision-making. The MHS in Health Economics is an academic degree, offered jointly by the departments of International Health and Health Policy and Management. Program requirements consist of four academic terms, a comprehensive exam and a scholarly paper.

Prospective students apply to one of the two departments based on academic and career interests. However, students from both departments participate in a common core of classes spanning health economics, behavioral economics, economic evaluation, econometrics, statistics and epidemiology. Students have an opportunity to specialize, based on interests and experience, by choosing from elective courses that focus on U.S. or non-U.S. settings.

This degree is intended for students with a passion in public health or medicine, to develop skills in health economics, economic evaluation and econometrics.

Graduates will be well positioned to pursue doctoral training in economics and health policy or international health or careers as analysts in both public and private sectors.

For more information on the MHS in Health Economics visit www.jhsph.edu/departments/international-health/masters-degrees/master-of-health-science-in-health-economics/index.html
MSPH
duration: 1.5 to 2 years**
application deadline: Feb 1

The Department of International Health offers professionally-oriented MSPH degrees in the following academic programs: Global Disease Epidemiology and Control, Health Systems, Human Nutrition, and Social and Behavioral Interventions.

The MSPH programs provide students with specialized training within their chosen field, as well as general training in the field of public health. These programs are targeted to individuals interested in pursuing careers as public health professionals or those interested in continuing on with a more advanced research degree. Applications are welcomed from both recent college graduates and those with current careers in other fields. Prior exposure to public health is helpful but not required. Applicants must choose a specific program area when applying to the MSPH.

Program requirements consist of a minimum of four academic terms of 64 credits of coursework followed by a comprehensive exam, a practicum in which at least 32 credits are earned and an essay. The practicum can be a full-time activity of four months in duration or a part-time effort extending over a period of up to 12 months.

MSPH graduates may pursue a doctoral or medical degree, or may work for non-profit, non-government public health organizations.

MA/MSPH
The MSPH may be pursued in the context of the MA/MSPH dual-degree program with the Johns Hopkins School of Advanced International Studies (SAIS). Students wishing to pursue the dual degree program can complete both degrees in three years.

Peace Corps Master’s International Program
As a complement to our MSPH program, the department also provides an opportunity for students to fulfill the practicum requirements through the Peace Corps Master’s International Program (PCMI). The academic requirements for this program are the same as for the MSPH program, but instead of completing a minimum of a two-term practicum through the Bloomberg School, students fulfill their practicum requirement with a two-year U.S. Peace Corps volunteer assignment that builds upon skills and training received at the Bloomberg School.

> For more information regarding the Peace Corps program, visit www.jhsph.edu/dept/ih/globalhealthdegrees/PCMI

MSPH/Registered Dietitian (RD)
application deadline: Jan 5
Selected MSPH students in Human Nutrition can meet their practicum requirements completing supervised practice in dietetics at the Johns Hopkins Bayview Medical Center. This program offers students with a science-related undergraduate background and interested in public health nutrition, the opportunity both to obtain the MSPH degree and to complete supervised practice in public health nutrition in preparation for obtaining the RD credential. Students interested in this option should indicate their interest at the time they apply to the MSPH program.

The MSPH/RD program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics.

> For more information regarding the registered dietitian program, visit www.jhsph.edu/dept/ih/globalhealthdegrees/msph-msph-rd.html

PhD
duration: 4 to 5 years**
application deadline: Dec 15

Those interested in a doctoral research degree (PhD) must apply to one of the four program areas: Global Disease Epidemiology and Control, Health Systems, Human Nutrition, and Social and Behavioral Interventions.

Candidates for a research degree must complete courses in international health generally and in their selected program, undertake research in their specialized field of interest, and prepare and defend a thesis based on this investigation.

The PhD prepares students to become independent investigators in academic and non-academic research institutions, and emphasizes contribution to theory, public health science and implementation science.

Interested PhD applicants should have a masters degree in a related field prior to applying (Human Nutrition PhD applicants may be excepted if they have extensive nutrition experience).

MSPH and PhD Concentrations
Global Disease Epidemiology and Control
The Global Disease Epidemiology and Control (GDEC) Program trains students to be future leaders in identifying disease etiologies, and in the design, implementation and evaluation of biomedical interventions to prevent, mitigate or treat diseases of global public health importance. Core content areas include infectious diseases, epidemiology and biostatistics.

Accomplished, innovative and involved faculty are leaders in the fields of infectious disease epidemiology (including emerging infections), vaccinology, mHealth and spatial and epidemic modeling of infectious diseases. Faculty are also global leaders in shaping disease control policy. GDEC offers a comprehensive and state of the art vaccine curriculum. Students may earn a Certificate in Vaccine Science and Policy, to understand clinical research and implementation in the U.S. and internationally.

GDEC graduates enjoy careers in academia, government and nongovernment sectors, and industry. Alumni hold faculty appointments at leading universities and ministries.
of health on five continents and positions at major global health organizations, including WHO, CDC, FDA, NIH, the World Bank, and the International Vaccine Institute.

Applicants for the GDEC MSPH program should have undergraduate coursework in biology and quantitative sciences. PhD applicants should have a degree in medicine, veterinary medicine or dentistry; or a master’s level degree or equivalent graduate training in epidemiology, statistics, international health, tropical medicine, microbiology, parasitology, immunology, mycology or virology. Prior work experience is preferred.

Health Systems
The Health Systems Program works to design systems and implement equitable and cost-effective strategies for delivering health care and health promotion interventions to disadvantaged and underserved communities in the U.S. and abroad. This mandate is carried out through research, service, and training with and for the populations being served. Priority is given to populations stressed by economic, social, and political instability, many of which have also been displaced by conflict or natural disasters.

Applicants should have a prior degree in biological or health sciences or, alternately, in management or social science. Some prior international or health systems experience is highly desired.

MSPH graduates will be capable of developing and applying their skills in a variety of settings, from community to national and international levels, working particularly in low- and middle-income countries and with disadvantaged populations.

The MSPH curriculum focuses on planning and managing health projects and programs at the community, district, national and global levels.

Graduates will be capable of playing a management role in governmental and nongovernmental organizations to include design, implementation, monitoring and evaluation of public health programs in low and middle-income countries and other low resource settings.

The overall goal of the PhD program is to produce the next generation of leaders in the research and practice of public health dealing with health systems. Doctoral research focuses on health policy, health planning, financing, management and evaluation, institution building, community development and health systems strengthening.

Human Nutrition
The program in Human Nutrition provides students with the theoretical knowledge and state-of-the-art scientific, programmatic, policy and leadership skills for addressing pressing global and domestic challenges in public health nutrition.

Through a broad array of required and elective coursework, and with the guidance of experienced faculty advisers, doctoral and master’s degree students acquire and apply knowledge and skills in nutritional issues spanning the life, nutritional biochemistry and metabolism, assessment methods, food and nutrition policy and programs, nutritional epidemiology and other areas of public health application. Students are challenged to identify and consider solutions

Student Spotlight

The more Jessica Atwell learned about infectious disease epidemiology, the more interested she became. She was working as a molecular epidemiologist characterizing vaccine-preventable disease cases for the California Department of Public Health when she decided to pursue a master’s degree at the Bloomberg School.

“I was here about a month before I realized one year wasn’t going to be enough,” she says. There were so many classes she wanted to take and methods she wanted to learn that while she completed her MPH, Jessica applied and was admitted to the Department of International Health’s PhD in Global Disease Epidemiology and Control (GDEC).

“I think for me, it was the breadth and depth of vaccine-related expertise that’s here: all the different centers, the connections with real-world partners, and also the amazing faculty,” Jessica says. “Of all the schools of public health, Hopkins is the best place to be if you’re interested in studying vaccine science and policy.”

Jessica has been working on a project that strives to better understand important questions related to maternal immunization for respiratory syncytial virus (RSV). Specifically, she is looking at whether conditions in pregnancy, like malaria, hinder antibody transfer from mothers to fetuses.

Looking to the future, Jessica hopes to continue in both academia and her research in vaccine-preventable diseases.

“I’m interested in infectious disease epidemiology, but I’m particularly interested in the interplay between vaccines and disease in populations and also in the development and assessment of vaccines”

She would also like to teach.

“In addition to the great mentorship I’ve had in GDEC as a student, I’ve also had very rewarding experiences as a teaching assistant. I’m eager to continue passing on the skills I’ve learned to other young scientists.”
to important nutritional problems facing societies in terms of their causes, extent, severity and health that concentrate in the areas of international nutrition, effects and approaches to their prevention throughout the life cycle.

MSPH practicums may involve domestic or international nutrition internships or research projects, with nongovernmental organizations or with IH faculty. The PhD degree prepares candidates for careers in the design, conduct and publication of innovative research and in public health leadership across diverse areas of applied nutrition.

Entry into the PhD program requires at a minimum a bachelor’s degree preferably in nutritional, biological, food or social sciences. PhD applicants are required to have a minimum of one year of post-baccalaureate experience which can take the form of a master’s degree, a dietician internship, medical training or other relevant work experience.

Social and Behavioral Interventions (SBI)
The SBI Program conducts research, training, and service on the development, implementation and evaluation of social, behavioral and community-based public health interventions. The program’s goal is to assist in the formulation of programs which reflect the social, cultural and policy context of health problems using a public health perspective, and a sound understanding of the epidemiology of health issues in developing countries.

SBI’s primary focus is on the direct application of theory and data collection into public health action. In the SBI program students will gain a strong foundation in formative and qualitative methods as well as behavioral theory. It offers multidisciplinary training for researchers and public health practitioners who wish to use the health or social sciences in the design, implementation and evaluation of public health programs, particularly community-based interventions.

Applicants to the master’s program should have a prior degree in the social sciences. Some prior international or health experience is highly desirable. Doctoral candidates have generally already completed a prior master’s degree in a related field of study and have some professional experience.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES
The department offers the following certificate programs:
› Certificate in Global Health (fully online)
› Certificate in Humanitarian Assistance
› Certificate in Tropical Medicine (Summer Institute)
› Certificate in Vaccine Science and Policy
› Public Health Training Certificate for American Indian Health Professionals

For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

DEPARTMENTAL FUNDING

Master’s Programs
There are only a few tuition scholarships available to support students in their first year of study. MSPH tuition discount: after successfully completing 64 credits in didactic courses in year one, all students will receive a 75 percent discount in their second year, provided they are registered for a minimum of 16 credits each term. No special application is required for funding consideration; all admitted applicants will be considered. Students in the MHS in Health Economics degree are excluded from receiving this scholarship.

PhD Program
The Department of International Health awards tuition scholarships for most doctoral students. The scholarship pays for 100% of tuition on each student’s first year, and 50% of tuition on their second through fifth year. This scholarship is given provided that all students are enrolled full-time (minimum 16 credits) and are in good academic status.

A few other departmental scholarships and fellowships are available.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

The Department was founded as the academic health research unit for the U.S. Agency for International Development. 1961
The mission of the Department of Mental Health is to advance understanding of mental and behavioral disorders, to develop, implement, and evaluate methods to prevent and control these disorders, and to promote mental health in the population. The Bloomberg School’s Department of Mental Health is the only academic department solely dedicated to public mental health in the world.

The target outcome of mental health and mental disorders is the distinguishing feature of the Department of Mental Health. Mental disorders are disturbances of thinking, feeling, and acting which have a proximate cause in the brain. Disturbances of thinking include mental disorders like schizophrenia and dementia, as well as impairments in overall cognitive ability. Disturbances of feeling include emotional problems like mood and anxiety disorders. Disturbances of behavior include misuse of alcohol, use of illicit drugs and violence.

The department conducts research on the public health aspects of mental and behavioral disorders, but does not provide clinical training.

DEGREE PROGRAMS

MHS in Mental Health
duration: 1 year**
application deadline: Jun 1

The MHS is organized around a core set of four terms of graduate courses and a final research paper that demonstrates mastery of what has been learned in the coursework experience. The master’s degree is completed in one academic year. The MHS degree in the Department of Mental Health may be combined with a certificate program offered in another department of the Johns Hopkins Bloomberg School of Public Health, e.g., Health Education, Health Finance and Management, Health Policy, Health and Human Rights, Health Communication, Health Disparities and Health Inequality, Injury Control or Maternal and Child Health. These certificate programs are at no extra cost to full-time students and are available to enhance the mental health research educational experience.

BA/MHS in Mental Health
duration: 5 years**
special application requirement: applicants must be enrolled in the undergraduate program in public health studies at Johns Hopkins University
application deadline: July 1 between junior and senior undergraduate years

Undergraduate students currently enrolled in the Johns Hopkins University Krieger School of Arts and Sciences program in public health studies have a unique opportunity to receive both bachelor’s and master’s degrees. The Department of Mental Health offers early graduate school admission to students enrolled in this undergraduate program.

PhD in Mental Health
duration: 4 to 7 years**
application deadline: Dec 15 (preferred)

The doctoral program is organized around a core set of six terms of required graduate courses, followed by a comprehensive examination, usually scheduled at the end of the second year of study. After the comprehensive exam, the student prepares a prospectus for the thesis, which serves to assist examiners in the preliminary doctoral oral
examination, usually taken during the third year of study. The thesis, which represents a distinct increment to available knowledge and is deemed publishable by examiners, is often completed by the end of the fourth year of study.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES
Certificates
The department offers the following certificate programs:
› Certificate in Public Mental Health Research
› Certificate in Mental Health Policy, Economics and Services

For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

Post-Doctoral Training Opportunities
The department has several NIH-funded doctoral and postdoctoral training programs. These programs provide support for research training in public mental health:
› The NIA Aging and Dementia Training Program
› The NIDA Drug Dependence Epidemiology Training Program
› The NIMH Child Mental Health Services and Service Systems Training Program
› The NIMH Global Mental Health Training Program
› The NIMH Psychiatric Epidemiology Training Program

DEPARTMENTAL FUNDING
Financial support—including tuition, fees and stipend—is available for well-qualified applicants. The department is able to fund selected doctoral- and postdoctoral-level individuals through its NIMH and NIDA training programs and the Bloomberg School’s Sommer Scholars and Brown Scholars Programs.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight
A native Baltimorean with an undergraduate background in psychology, Luke Kalb was drawn to the Master of Health Science (MHS) mental health. He liked the unique coursework combining core public health disciplines like biostatistics and epidemiology with courses in mental health. He was excited by the diverse research interests of the department’s faculty.

After graduation, Luke spent five years applying the skills learned through his MHS at the Kennedy Krieger Institute. The experience helped him realize that he wanted to be an independent researcher. Where to apply was a “no brainer.”

“It’s kind of a playground for academics here, because you can get into anything you want,” Luke says. “There’s great methods, applied work, policy, economics, psychosocial research—you can really focus on what you want.”

Luke was again drawn by the faculty as well as research centers like the Wendy Klag Center in Autism.

“I also really like the different approach we take here as opposed to psychology,” he says. “We look at large groups of people.”

The population Luke focuses on is children with autism. Specifically, he studies psychiatric service utilization. He seeks answer to questions such as how do children with autism move in and out of the mental health system? What is the quality of their care and how does that compare to populations of children? Luke also works on developing mental health measures designed specifically for children with autism. It’s the sort of work he hopes to continue in the future.

“I find it incredibly fulfilling to discover new things and I’m hoping that my work translates into real changes for children with autism, their families and caretakers,” Luke says.

Luke Kalb
PhD Candidate
Mental Health
W. Harry Feinstone Department of Molecular Microbiology and Immunology

Molecular Microbiology and Immunology (MMI) employs the disciplines of virology, bacteriology, parasitology, mycology, immunology, structural biology, biochemistry, molecular biology, vector biology and ecology to gain a deeper understanding of the interaction between host and infectious agent. Research is conducted at the population, organismal, cellular and molecular levels. This broad approach to the study of disease is based on the idea that public health problems can best be addressed by understanding basic biological mechanisms.

Research takes place in the laboratory, in the clinic, and in the field, as the faculty works to combat such enormous public health problems as malaria, sexually transmitted diseases, mosquito-borne encephalitis, tuberculosis, diarrhea, measles, AIDS and autoimmune diseases.

Graduates from the Department of Molecular Microbiology and Immunology go on to careers as faculty and research scientists in colleges, universities, medical schools, research institutes, government agencies and in the biotechnology and pharmaceutical industries.

DEGREE PROGRAMS

MHS in Molecular Microbiology and Immunology
duration: 1 year**
application deadline:
› April 1 (for international applicants)
› June 1 (for domestic applicants)

The MHS provides educational opportunities to students who do not wish to pursue a laboratory research program but wish to gain a greater knowledge in the field of infectious diseases.

MHS students complete 88 credit hours during the four terms of the academic year. Required courses, focusing on immunology, virology, parasitology, bacterial pathogenesis and public health ecology, account for about half of that number. Students work closely with faculty members, one of whom will serve as the student’s adviser and assist the student with exploring the literature and selecting a topic for the required essay. MHS students will present one seminar based on the essay topic.

All master’s students may first apply to the MHS program. In the third term of the first year, students who wish to do so may apply for transfer to the ScM program. Students who are certain they want to pursue a research-based degree that involves original research may apply directly to the ScM program.

 Frederik B. Bang initiates research on viruses as cancer agents and introduces courses on electron microscopy. With George O. Gey, he develops effective tissue culture methods, a foundation for in vitro research. 1956

**The time it takes to complete a degree may vary by student and circumstances
ScM in Molecular Microbiology and Immunology
duration: 2 years**
application deadline: April 1

The ScM is offered to students who wish to gain research experience in the laboratory or field.

In the first year of the program, ScM students complete the same core curriculum as MHS students. In addition to coursework, ScM students conduct one laboratory rotation, take a written comprehensive examination at the end of the first year and complete original research under the guidance of a faculty mentor. At the conclusion of their research, students submit a written thesis and present their thesis work at a departmental seminar.

The ScM degree is designed for students preparing for PhD programs or considering upper-level research positions in academia, government or industry.

PhD in Molecular Microbiology and Immunology
duration: 5 years**
application deadline: Dec 1

The PhD in MMI prepares students to become independent investigators in the biomedical sciences. The program includes coursework and written and oral exams, but the primary focus is the completion of original research and preparation of a research thesis.

Opportunities for PhD research in MMI are very diverse and include virology, bacteriology, parasitology, mycology, vaccine development, host innate and adaptive immunity, pathogenesis, autoimmunity, bioinformatics, ecology of infectious diseases and medical entomology. MMI PhD students learn mechanistic approaches to solving fundamental questions in microbiology and public health.

In the first year of the program, PhD students complete a core, three 11-week laboratory rotations and choose a thesis adviser. At the end of the first year, students must pass a comprehensive written examination in the form of a critical review of a scientific topic relevant to MMI which the students defend orally in front of a faculty committee. In the second year, students complete departmental and School course requirements, including a preliminary oral examination, and undertake thesis research. Over the course of the PhD program, students attend and participate in the departmental seminar and research forums. Research progress is monitored by annual meetings of the student’s advisory committee.

DEPARTMENTAL FUNDING
Funding sources are limited for master’s programs. ScM students in Molecular Microbiology and Immunology will be considered for a partial tuition fellowship beginning in the second year of their program.

All PhD students receive a stipend, a full tuition scholarship, and medical insurance.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Student Spotlight

Diego Espinosa earned his bachelor’s degree in biology from the Universidad Peruana Cayetano Heredia in Lima, Peru. During that time he became interested in the field of infectious diseases, especially parasitic infections.

Upon earning his degree, Diego joined the Institute of Tropical Medicine - Alexander von Humboldt as a junior researcher and started working on new approaches for the diagnosis of leishmaniasis, an infection that affects many rural communities throughout the Peruvian Andes and rainforests. He was able to interact with patients suffering from the disease and to provide the physicians treating them with newly developed diagnostic methods. It was a rewarding experience and perfect example of translational research: going from benchside to bedside.

Diego decided to pursue a doctoral degree through the Bloomberg School’s Department of Molecular Microbiology and Immunology because the program offered him the unique opportunity of working with leading malaria researchers and to study the disease through different biological approaches. Using chimeric malaria parasites developed by his group, he evaluates the protective efficacy of new vaccine candidates against the disease. The group’s working model allows them to identify essential characteristics of highly immunogenic formulations, laying the groundwork for further clinical testing that could lead to the generation of a much needed malaria vaccine.

"Being a part of the School of Public Health allows me to think about the impact of my research in a global health context and the importance of reaching communities in need," Diego says.
Department of
Population, Family and Reproductive Health

Population, Family and Reproductive Health (PFRH) is an interdisciplinary department whose research, teaching and practice address issues concerning the health of children, adolescents, men, women and the elderly at both the family and population levels. The department’s efforts focus not only on the health and behavior of populations in the U.S., but on health care needs worldwide.

Research, evaluation and practice all play an integral role in the department’s academic programs and faculty efforts. Our dedicated faculty develop and apply a broad range of methods to research and professional practice. These methods are drawn from demography and related social sciences, developmental psychology, epidemiology, public health, health services research, nutrition, economics, policy analysis, family planning administration, medicine and nursing.

Teaching and research activities focus on human development across the lifespan, basic reproductive processes, and biological and social determinants of population change and its social and economic consequences. Within the University, PFRH serves as the primary academic base for the core discipline of demography.

Graduates in the department are trained as research scientists, administrators and health professionals for careers related to a broad spectrum of population, family and reproductive health issues.

DEGREE PROGRAMS

MHS in Demography
duration: 1 year**
application deadline: Mar 1

The MHS in Demography is designed to train students in the study of the size, distribution, structure and health of human populations. The first objective of this program is to give students the opportunity to acquire substantive and methodological skills applicable to a diverse range of public health issues in a variety of settings. The second objective is to increase the spectrum of professional opportunities by enabling them to market themselves as trained in demography.

The curriculum offers a broad range of theories related to demographic behavior and its consequences on society, the economy, politics and culture. Areas of specific interest within the department include fertility, migration, mortality, and aging along with mathematical components such as population data measures and demographic analysis. Students will leave with both qualitative and quantitative knowledge that will enable them to pursue careers in government, nongovernmental health organizations, academia or private organizations.

**The time it takes to complete a degree may vary by student and circumstances
The department also offers the MHS. This one-year academic program is designed for students who are interested in advancing their knowledge base related to a focal area within the department and wish to strengthen their research and analytic skills, improving their potential for career advancement. This program has a part-time option for working professionals.

Graduates of these programs combine prior career and educational training to go on to careers in policy, research and advocacy for NGOs, academic institutions, and government agencies.

MSPH

duration: 2 years**

application deadline: Mar 1

The two-year MSPH program is intended for individuals with a baccalaureate degree who may or may not have prior health-related work experience or whose public health-related work experience is less than two years. Through coursework, experience with faculty, and a four- to six-month internship, students acquire a sound orientation to general public health principles and to specific areas of public health relating to population, family and reproductive health.

Graduates go on to careers in complimentary fields in policy, research and advocacy for NGOs, academic institutions and government agencies.

Peace Corps Master’s International Program

As a compliment to the MSPH department provides the opportunity for students to fulfill the practicum requirements through the Peace Corps Master’s International Program (PCMI). Students begin their program with nine months of coursework in the Department of Population, Family and Reproductive Health. Coursework and completion of the MSPH essay and presentation is followed by a two- to three-month Peace Corps project orientation and the completion of 24 months of volunteer Peace Corps service.

For more information regarding the MSPH/Peace Corps program, visit www.jhsph.edu/departments/population-family-and-reproductive-health/degree-and-certificate-programs/degree-program-msph-pcmi

PhD

duration: 5 years**

application deadline: Dec 1

The PhD program in Population, Family and Reproductive Health is designed for students whose career goals are focused on conducting publishable, independent and original research, as well as students with an interest in public health practice. The program promotes opportunities for public health leadership in community based research, program evaluation, and application of research to current public health programs, as well as in conducting independent research. Students may enter the program with little or no professional public health work experience. The emphasis of the PhD program in PFRH is to train individuals to apply a social science perspective along with a broad range of research methods to issues related to the department’s focal areas.

Graduates of the program use their acquired substantive and methodological skills in a wide range of work settings, including institutions and organizations for teaching and research as well as policy and practice, to shape population, family and reproductive health.
DEGREE FOCAL AREAS
Once admitted into the department, students may design their research and studies among the following focal areas: adolescent health; child health; maternal, fetal and perinatal health; population and health; sexual and reproductive health; and women’s health. Additional areas being developed include: urban health, family health, neurodevelopment and behavior and health.

> Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES
Certificates
The department offers the following certificate program:
› Certificate in Adolescent Health
› Certificate in Demographic Methods
› Certificate in Maternal and Child Health
› Certificate in Population and Health
› Certificate in Public Health Economics

> For more information regarding certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

DEPARTMENTAL FUNDING
Funding for master’s and doctoral students is determined on a case by case basis. All second-year MSPH students in good standing receive a 75 percent Master’s Tuition Scholarship from the School.

The department is committed to helping doctoral students finance their degree. Some funding is available through training grants and departmental and Schoolwide scholarships and awards.

Doctoral students in the department are encouraged to also apply for outside funding sources to supplement any tuition awards they may receive. There are also limited opportunities for support through research assistantships, teaching assistantships and departmental and school wide honors and awards.

> For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

STUDENT SPOTLIGHT
Kate Baye dreams of influencing the world through health. Her dream is not just to improve the health of individuals, but the health of whole societies.

Kate is a physician pursuing a Master of Science in Public Health (MSPH) in the Department of Population Family and Reproductive Health. She became interested in maternal and child health issues, particularly those surrounding reproductive health, after working in a community health center in Yaoundé, Cameroon. The center served mainly women and children and demonstrated to Kate that the well-being of a community and nation can be influenced through the health of its mothers and children.

“Clinical medicine and practice are important,” says Kate, “but public health plays a crucial role in the overall health and well-being of a society, and has a broader perspective and wider impact on the population.”

Kate’s master’s focus is specifically sexual and reproductive health, but she is also working on a certificate in maternal and child health. Kate intends to complete her education before continuing to work toward improving the lives of mothers and children.

“Investing in the health of mothers and children can totally change the economic, social and political state of any given society. They are the heart of any community,” Kate says.

Sushila Nayar, DrPH ’50, the personal physician to Mohandas Gandhi, becomes the department’s first doctoral graduate and later serves as India’s Minister of Health.

1953

Kate Baye
MSPH Candidate
Population, Family and Reproductive Health
Established in 1995, the Johns Hopkins Berman Institute of Bioethics is now one of the largest centers of its kind in the world. Today, the Berman Institute consists of more than 30 core and affiliated faculty from the Johns Hopkins School of Medicine, School of Nursing, Bloomberg School of Public Health, and the Krieger School of Arts and Sciences. Faculty work collaboratively on scholarship and teaching in the Institute’s areas of focus.

In recent years, faculty of the Berman Institute have made significant contributions to bioethics in areas as varied as the Learning Health Care System, conflicts of interest, HIV/AIDS, stem cell research, justice theory, international capacity development, deep-brain stimulation, neonatal care, social media, sickle cell disease, use of non-human primates in research, and much more. In addition to making academic contributions in these areas, faculty work is often featured in well-known print, visual, and electronic media outlets.

Institute faculty have also led and served on multiple presidential bioethics commissions as well as committees of the Institute of Medicine (IOM), World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), National Institutes of Health (NIH) and for state and local health departments. Faculty are well known for working across disciplines, and for employing innovative methods in their work, for example using video documentary, public engagement, and social media monitoring as tools of research and policy change.

**The time it takes to complete a degree may vary by student and circumstances**

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**Master of Bioethics (MBE)**

duration: 1.5 years**

application deadline: May 1

The Master of Bioethics degree is a new collaborative program of the Johns Hopkins Berman Institute of Bioethics and the Johns Hopkins Bloomberg School of Public Health. An innovative, interdisciplinary, and cross-divisional graduate program, the goal of the MBE program is to prepare students from diverse individual and professional backgrounds for the bioethics challenges of professional and civic life.

The rigorous pursuit of human well-being through health care and research has resulted in tremendous gains, locally and globally, for the benefit of individuals and populations. From the first ventilator to the first vaccine, such scientific and technological discoveries have been used to prolong life and alleviate human suffering while advancing health-related knowledge. These advancements, however, often present challenging ethical questions — for individuals and society — about appropriate use, access, safety, and rights and obligations, among many others.

The MBE provides concrete training in the ethics of clinical care, research, science, and public health with a particular focus on the application of theory and methods of inquiry in bioethics. The program provides the knowledge and tools necessary for graduates to become critically engaged in investigating and addressing long-standing and emerging ethics issues that have local, national, and global import. The program
is grounded in real-world challenges and informed by leading edge scholarship, with a diverse faculty and student body bringing lived experiences to the classroom.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

FUNDING
At this time, there is no funding specifically for students in the MBE program. However, students are encouraged to visit the funding opportunities database at www.jhsph.edu/offices-and-services/funding-opportunities.

For more information regarding funding, tuition costs and financial aid, flip to page 66 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid
Master of Public Health

The MPH is a Schoolwide program designed to provide students with a population perspective on health. The program prepares students to become leading public health professionals capable of addressing current global public health problems through multidisciplinary approaches using the latest scientific knowledge.

The MPH is a flexible program, fulfilling a variety of professional and career goals. Students may study full-time on the Baltimore campus or part-time over the Internet. Full- and part-time students fulfill the same academic requirements and receive the same degree.

CHOICE OF FORMAT

Full-Time Study
**duration: 11 months**
special application requirement: health-related experience and college-level coursework—see page 46
application deadline: Dec 15

The full-time option is a concentrated 11-month course of study on the East Baltimore campus. The program begins with an orientation in late June/early July.

Online/Part-Time Study
**duration: up to 3 years**
special application requirement: health-related experience and college-level coursework—see page 46
application deadlines
› Jul 1 (for Nov start in Barcelona, Spain)
› Jul 1 (for Jan start in Baltimore)
› Dec 15 (for June start in Baltimore)

Online/Part-time students complete the degree within three years of matriculation through a combination of online and in-person classes.

Students may earn up to 80 percent of their academic credits online. The remaining coursework may be completed on the East Baltimore campus during regular terms, through intensive Summer and Winter Institutes or at other sites where Johns Hopkins Bloomberg School of Public Health courses are offered for credit.

MPH CURRICULUM

The MPH program provides a balance between a broad-based core curriculum and an individual’s public health interests. The curriculum, grounded in critical disciplines and competencies of public health, includes the following core courses:
› Environmental Health
› Principles of Epidemiology
› The Tools of Public Health Practice
› Biostatistics
› Public Health Biology
› Management Sciences
› Social and Behavioral Sciences

And complete the following projects:
› MPH Individualized Goals Analysis—completed within two terms of matriculation, a plan of study meeting the student’s educational and professional goals.
› Practicum Experience in Population-based Health
› MPH Capstone—applies competencies and skills acquired through the program to a public health problem relevant to a student’s professional goals and interests.

**The time it takes to complete a degree may vary by student and circumstances**
Electives depend upon the chosen concentration or customized program developed with the help of an adviser.


### MPH CONCENTRATIONS

**Full-time MPH students choose one of ten concentrations or customize their program to meet their own public health goals.**

**Online/Part-time students participate predominantly through off-campus formats and do not elect a concentration. They can, however, use concentration requirements as a guideline to focus their study in a particular area of public health.**

**MPH Customized Program of Study**

The customized approach to the MPH degree is designed for students who seek a broad perspective on the science and practice of population-based approaches to health and disease. It allows students the flexibility to tailor programs to their own personal and professional goals. They may have academic objectives that do not precisely fit the more structured concentration areas or a desire to explore several different areas within public health. Such students often prefer access to a wide range of course content throughout the academic year.


**Child and Adolescent Health**

The MPH concentration in Child and Adolescent Health (CAH) focuses on understanding developmental and health issues of children and adolescents across the globe, the nature and scope of the multiple determinants of their health status, and the range of public health programs to address the health and well-being of children and their families, in domestic and international settings.


**Epidemiologic and Biostatistical Methods for Public Health and Clinical Research**

This concentration is designed for students with quantitative backgrounds who wish to pursue a rigorous curriculum in epidemiologic study design and statistical data analysis. The goal of this concentration is to introduce students to the design and conduct of a research study in public health as well as to perform a data set analysis that allows them to put concepts into practice. This concentration is best suited for students who have already worked in a particular substantive area and have identified specific research questions.


**Global Environmental Sustainability & Health**

This concentration provides students with an understanding of how human consumption and standards of living have exceeded the carrying capacity of the earth. How, as a result, the environmental resources upon which we depend have been severely compromised and how this affects the health of individuals, communities and the global population. Specifically, students will learn how land use (including patterns of suburban sprawl), transportation patterns and systems, energy use, food production and distribution, water use, and population growth contribute to climate change, ecosystem degradation, and species extinctions and biodiversity losses, and how these, in turn, threaten human health on local, regional, and global scales.


**Health in Crisis and Humanitarian Assistance**

This concentration focuses on health of populations in crisis, internationally and domestically. These include refugees, internally displaced persons (IDPs), populations affected by natural and human-made disasters, victims of human rights abuse and survivors of human trafficking. The coursework will focus on why populations become vulnerable and the health issues they face. Preparedness, advocacy and response to promote effective and equitable interventions will be stressed. Emphasis will also be placed on gaining expertise in methods to assess needs and provide assistance to displaced populations and other vulnerable groups.


**Biostatistical Methods Concentration**

This concentration provides students with an opportunity to focus their study on food and nutrition as it affects health and integrate this information with other coursework in order to develop the skills to understand and address nutrition problems in the U.S. and around the world.
Learn more about the Health in Crisis and Humanitarian Assistance Concentration at www.jhsph.edu/academics/degree-programs/master-of-public-health/curriculum/concentrations-and-customizing/health-in-crisis.html

Health Leadership and Management
This concentration provides students with an understanding of the challenges of organizational leadership and management in the health sector. The concentration is aimed at individuals whose responsibilities require them to have the knowledge and skills essential to balance the demands of leading and managing during times of change, but do not require a full management degree. Students will gain a fundamental understanding of leading and managing health organizations in a range of settings in both domestic and international settings.


Health Systems and Policy
This concentration develops skills and knowledge related to analysis and decision-making for health systems’ organization, financing and service delivery in the U.S. and internationally. The curriculum focuses on health policy analysis and formulation, financing, organization and oversight of health systems, and policies and programs for disease prevention, injury control and other public health priorities. This concentration area is aimed at developing skills, knowledge and attributes for policymakers, policy analysts and senior managers of health systems. The concentration emphasizes planning and managing national and international programs, institution building, and related analysis.


Infectious Diseases
This concentration provides students with competencies in multiple disciplines including epidemiology, immunology, microbiology, parasitology, and vector-borne diseases to address critical problems in the control and prevention of infectious diseases. Students who complete the concentration gain special expertise in the pathogenesis, epidemiology, and control of infectious diseases appropriate for careers within state health departments, federal agencies or the pharmaceutical industry conducting research in these matters. Students are exposed to the fundamental concepts underlying the epidemiology and control of a number of infectious diseases affecting global health.

Learn more about the Infectious Diseases Concentration at www.jhsph.edu/academics/degree-programs/master-of-public-health/curriculum/concentrations-and-customizing/infectious-diseases.html

Student Spotlight
Clinical medicine lost its spark for Mahendra Naidoo after his first year of fellowship in gastroenterology. His gut told him to step back from the specialty and explore health from a broader view. “The MPH program has been a soul-searching journey,” says Mahendra, who traveled from New Zealand to Baltimore on a Fulbright Scholarship. As a student, Mahendra discovered he had a flair for pitching big ideas during a group presentation about curbing drunk driving in a public health law course. The yearning to make a large-scale impact aligned him with classmates Arun Nair, MD, International Fellow in the Johns Hopkins Department of Emergency Medicine and Vanessa Cavallera, MD, a Fulbright Scholar from Italy. The trio is at the cusp of launching a start-up to product low-cost medical devices for a global market.

The first prototype, designed by Nair, is a device capped with a video camera that could help clinicians insert a breathing tube effectively and safely into a patient. The gadget could give a clear view of important anatomy—like the vocal cords and trachea—in both emergency and non-emergency situations. The team projects it will only cost several hundred dollars compared to products currently on the market that run for several thousands, says Naidoo, who is working to commercialize the device.

“I’ve gained a clearer understanding that what I want to do in the long-term is help underprivileged populations in low- and middle-income countries and reduce health inequalities,” he says, citing the Bill & Melinda Gates Foundation as inspiration.

Mahendra Naidoo
MPH Student & Fulbright Scholar
Social and Behavioral Sciences in Public Health

Students completing this concentration can gain skills in designing, implementing and evaluating programs promoting healthy behaviors in international and/or domestic settings. Students can also focus on analysis of psychological and social influences on health and behavior. They can obtain skills necessary for working with diverse populations, on a variety of health topics, and in non-profit organizations and government agencies at all levels. The concentration includes required and elective courses, a special seminar, and a capstone experience. Students completing this concentration may be eligible to take the national exam to become a Certified Health Education Specialist.

Women’s and Reproductive Health

This concentration focuses on understanding the health status of women with regard to their general and reproductive health, the determinants of their health status, and preventive strategies and programs to address women’s health and well-being, as well as the health of their newborns. Students may opt to focus on women’s, reproductive or perinatal health issues either domestically or in a developing country setting.


Applying to the MPH

Applications to the Schoolwide MPH are processed through a common application: Schools of Public Health Application Service (SOPHAS).

Detailed information may be found on the Admissions Services website.

All other Bloomberg School degree, residency and certificate applications are processed through Admissions Services.

Not sure which application to use? Visit www.jhsph.edu/admissions/how-to-apply or contact Admissions Services at jhsph.admiss@jhu.edu

Important: the Johns Hopkins Bloomberg School of Public Health is not accepting applications to the online/part-time Master of Public Health from students who reside in of Kansas. In addition, students currently cannot conduct practicums in Kansas, Kentucky, Missouri, New Hampshire, North Carolina, Ohio or Oregon. For more information, please visit the MPH program website. Students should be aware of additional state-specific information for online programs.

MPH ADMISSIONS REQUIREMENTS

The MPH program has admissions requirements beyond what other Bloomberg School programs require. These additional requirements include:

- Health-related experience beyond the baccalaureate level. This requirement may be fulfilled by:
  - A minimum of two years of full-time, post-baccalaureate, health-related work experience
  - A doctoral degree in a field underlying public health
  - Completion of two years of medical school curriculum

The experience requirement is waived for applicants to the MPH/MSW, JD/MPH and MSN/MPH degree programs.

- Successful completion of at least one college-level course in the following:
  - mathematics (e.g., calculus, algebra, statistics)
  - general biology
  - health-related science (e.g., nutrition, microbiology, anatomy or physiology), OR another biology course

- Submission of standardized test scores, such as the GRE, MCAT, GMAT or LSAT. MPH applicants who have a graduate degree beyond the baccalaureate may request an application review without the submission of standardized test scores. However, this may place the applicant at a disadvantage in the admission or scholarship selection process.

For more information on MPH degree application requirements, the SOPHAS application and/or where to submit supporting materials, visit www.jhsph.edu/admissions/how-to-apply/mph-application-instructions

ADDITIONAL ACADEMIC OPPORTUNITIES

Combined Programs

Graduate students working towards degrees in medicine, nursing, business, social work or law may integrate their degree programs with the Master of Public Health.

For more information regarding these and other combined programs, flip to page 46 or visit www.jhsph.edu/academics/academicprograms/combined_programs

The Social Security Act provides the first federal funding to train public health professionals. MPH enrollment doubles as a result.

1935
Combined Degree Programs

**DEGREE PROGRAMS OFFERED WITH OTHER SCHOOLS AND INSTITUTIONS**

**BA/MHS or BA/MSPH**
The Johns Hopkins University Zanvyl Krieger School of Arts and Sciences, in conjunction with the Bloomberg School, offers an undergraduate major in public health studies. The major has been tailored to prepare students for careers that have a basic science foundation, including medicine, and to familiarize students with health policy and management issues (domestic and international), with other social and behavioral sciences and with the quantitative sciences fundamental to public health.

The departments of Environmental Health Sciences and Health Policy and Management will consider JHU undergraduates majoring in public health studies for admission to the BA/MSPH program. The departments of Environmental Health, Epidemiology and Mental Health also offer the option of a BA/MHS.

Admitted students must complete the BA degree before formally enrolling in the Bloomberg School.

➢ For more information, contact the appropriate Bloomberg School department’s academic coordinator or the public health studies adviser on the Homewood campus: Dr. James D. Goodyear, 410-516-7812, goodyear@jhu.edu

➢ For more information regarding application requirements, flip to “How to Apply” on page 60 or visit www.jhsphu.edu/admissions

**MA/MSPH**
This joint degree program combines the Master of Arts (MA) in International Relations degree at the Paul H. Nitze School of Advanced International Studies (SAIS) in Washington, D.C., with a Master of Science in Public Health (MSPH) in International Health degree at the Bloomberg School. Both two-year programs may be completed in a total of three years.

The program is designed to prepare students for careers requiring a high level of public health expertise and a sophisticated understanding of international, political, socio-economic and cultural issues. It emphasizes the synthesis of knowledge and experience essential for planning and managing health services in a variety of settings around the world. Students in the combined MA/MSPH program begin in August and normally spend one and a half years completing coursework at the Bloomberg School and a practicum. The start date of the SAIS portion may depend on the program selected. Interested applicants should visit the SAIS website for additional details.

The SAIS program emphasizes public policy, development economics, regional studies and foreign language instruction. The Bloomberg School’s component stresses the basic disciplines of epidemiology, biostatistics and health policy and planning, along with specialized training in public health.

Candidates must submit separate applications to each school and admission is offered by both. Students already enrolled in one school will be considered by the other school in competition with all other applicants for admission to the incoming class.

➢ For SAIS admissions information, visit www.sais-jhu.edu/graduate-studies/admissions-and-aid/prepare.

Graduate students working towards degrees in medicine, nursing, business, social work, international relations or law may integrate their degree programs with a public health degree from the Johns Hopkins Bloomberg School of Public Health. These degrees will provide students with additional credentials and unique skill sets that will prepare them for careers within their fields requiring a high degree of health care expertise.

Current PhD students in the Bloomberg School may pursue an additional master’s or doctoral degree, and undergraduates majoring in public health studies at the Johns Hopkins University (JHU) may enroll in a BA/MHS or MSPH degree program. The Bloomberg School’s Committee on Academic Standards approves these degree programs.
**MPH Combinations**

**JD/MPH**

The JD/MPH program prepares students in the overlapping fields of law, public health, policy and ethics. Eligible candidates must apply and be accepted into the full-time MPH program at the Bloomberg School of Public Health and also separately apply and be accepted into the full-time program at Georgetown University Law Center or into another accredited U.S. or Canadian law school for the Juris Doctor degree, taking care to indicate on the application the appropriate beginning year for the MPH program. Students in the JD/MPH program will earn a Juris Doctor degree from their accredited law school and a Master of Public Health degree from Johns Hopkins.

This degree program is only offered in a full-time format and takes a total of four years to complete. Students will complete one or two years of the JD degree program at an accredited law school, which is a minimum of two full-time semesters. Then, starting in July, spend 11 months completing the MPH program requirements. They will then return to their law school to complete the remaining year(s) of their JD program. To be eligible for the JD/MPH program, the applicant must provide written approval from the student’s law school to take a leave of absence for one year to attend Johns Hopkins.

JD/MPH applicants apply through SOPHAS and need not have fulfilled the usual MPH requirement of either an advanced degree or two years of health-related work experience at the time of admission to Johns Hopkins. All other MPH admission prerequisites such as, college-level math and biological science coursework must be completed. The MPH degree is awarded upon the student’s successful completion of the JD degree.

- For more information on the MPH/JD, contact Professor Jon Vernick at 410-955-7982 or Professor Stephen Teret at 410-955-3995
- For information on the program with Georgetown Law program, see the above contact and visit www.law.georgetown.edu/academics/academic-programs/jd-program/joint-degree-programs/index.cfm

**MPH/MBA**

The Bloomberg School, in conjunction with the Johns Hopkins Carey Business School, offers a combined Master of Public Health (MPH) and Master of Business Administration (MBA) degree program. This unique, 21-23 month, full-time program integrates the philosophies, functions and competencies of public health and business enterprise to prepare graduates for careers in an emerging 21st Century health system. Students acquire knowledge and skills in topics such as principles of population-based health, financial management and strategic planning. Graduates will be able to assess the public health needs of a community design and implement targeted health policies and programs, and take leadership roles in their organizations.

Applications for the MPH/MBA are processed through SOPHAS. Requirements and deadlines are the same as the full-time MPH program. The admissions committees of both schools review applications independently.

- For more information, contact the MPH Program Office at 410-955-1291 or mphprog@jhu.edu

**MPH/MSW**

In collaboration with the University of Maryland School of Social Work (UMSSW), the Bloomberg School offers the MPH and Master of Social Work (MSW) program. This combination provides students with the knowledge and skills needed to become effective practitioners and leaders in health-related agencies and settings. Students obtain a population-based perspective as well as expertise in the quantitative sciences that, when combined with training in social work, prepares them to be effective members of the social work community who can plan, implement and evaluate such programs.

The MPH/MSW program is designed for full-time students. Students normally complete one year of the MSW program at UMSSW and then spend 11 months (starting late June or early July) completing the requirements for the MPH program, returning to UMSSW to complete the MSW program. The MPH degree is awarded upon completion of the MSW degree.

Interested applicants must apply to each school separately and simultaneously. The application to the MPH portion is processed through SOPHAS and applicants should take care to indicate the appropriate year they will begin the MPH program. The standard MPH admission prerequisite of previous health-professional training or two years of health-related experience is waived. All other prerequisites must be met.

Applicants must send their official transcripts and GRE scores separately to each school, and must also provide separate recommendations using the appropriate forms.

- Further information about the University of Maryland’s MSW program may be obtained by contacting the Office of the Associate Dean for Admissions at 410-706-8044

**MPH/MD**

Medical students desiring a Master of Public Health (MPH) typically enroll in the MPH program between their third and fourth years of medical school. Medical students must apply to the program and request a leave of absence from medical school. The years of medical training will fulfill the two years of health experience required for admission to the School’s MPH program.

Hopkins also offers a combined medical and public health degree program with the Georgetown Medical School.

Students in the MD/MPH program will earn an MD from their medical school and an MPH from Johns Hopkins.

- For information on the MPH/MD program, contact the MPH program office at 410-955-1291 or mphprog@jhu.edu
- For information on the Georgetown program, visit http://som.georgetown.edu/prospectivestudents/degrees/dualdegree
MSN/MPH

The Johns Hopkins University School of Nursing and the Bloomberg School offer a Master of Science in Nursing (MSN) and Master of Public Health (MPH) degree program. This 18-month curriculum of full-time study is designed specifically for nurses seeking to link their clinical and managerial interests with public health so as to streamline the delivery of nursing services in a variety of settings. Two-thirds of the program consists of core courses in nursing and public health; the remaining elective courses allow students to pursue individualized concentrations. Please note that both degrees will be awarded jointly on a single diploma.

Applications for the MSN/MPH degree program must be obtained from and submitted to the School of Nursing, and will be reviewed by the admissions committees of both the School of Nursing and the Bloomberg School. The steering committee for the degree program will make the final admission decision.

- For more information and an application, contact the Office of Admissions and Student Services, Johns Hopkins School of Nursing, 410-955-7548 or http://nursing.jhu.edu/academics/programs/masters/msn-mph/index.html.

MSPH/Mi
(Peace Corps Master’s International)

MSPh students in the departments of International Health and Population, Family and Reproductive Health have the opportunity to combine academic coursework with a rewarding experience through the Peace Corps.

- For information on the program through the Department of International Health, visit www.jhsphs.departments/international-health/masters-degrees/msph/peace-corps/index.html.

- For more information regarding the Peace Corps, visit www.peacecorps.gov.

MD/PhD

The Bloomberg School, in conjunction with the Johns Hopkins School of Medicine, offers the MD/PhD degree program. Admitted students complete two years of medical school before pursuing a PhD program full-time at the Bloomberg School. After completion of the PhD degree requirements, students return to the School of Medicine to complete the MD degree. Candidates for the MD/PhD degree must fulfill all of the normal requirements for the PhD degree. Prospective students must submit application materials to the Admissions Office at the School of Medicine.

- For more information, visit the program’s website at www.hopkinsmedicine.org/mdphd, or contact the MD/PhD Program Administrator, Ms. Sharon Welling (swelling@jhmi.edu or 410-955-8543).

COMBINED DEGREE PROGRAMS OFFERED WITHIN THE BLOOMBERG SCHOOL

Note: The PhD program is the primary program of study for any student accepted into a concurrent master’s degree program.

Doctoral/MHS in Biostatistics

The Department of Biostatistics provides students who are candidates for doctoral-level degrees in one department of the School with the opportunity to earn a Master of Health Science (MHS) degree in Biostatistics during the course of their doctoral studies. Candidates must apply directly to, and be admitted by, the Department of Biostatistics. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the MHS degree. The MHS must be relevant to the candidate’s field of doctoral study and must not impede progress in the doctoral program.

- For information about MHS programs in Biostatistics, contact Mary Joy Argo at 410-614-4454 or margo@jhu.edu.

Doctoral/MSPH in International Health

The Department of International Health provides students who are candidates for doctoral-level degrees in one department of the Bloomberg School with the opportunity to earn a Master of Science in Public Health (MSPH) degree from the Department of International Health during the course of their doctoral studies. A similar opportunity exists for PhD students in the Department of the History of Medicine in the Johns Hopkins School of Medicine. Candidates must apply directly to, and be admitted by, the Department of International Health. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the MSPH degree. The MSPH must be relevant to the candidate’s field of doctoral study and must not impede progress in the doctoral program.

- For information about International Health MSPH programs, see page 31 or call 410-955-3734.
The Bloomberg School offers two residency programs for physicians. Both are two years in duration. The first year is primarily an academic year in which the MPH degree is earned. The second year is a practicum year during which residents fulfill rotation requirements.

**General Preventive Medicine Residency Program**

- **duration:** 2 years**
- **special application requirement:** must have completed at least one year of ACGME-accredited clinical training (PGY-1) in the U.S. prior to commencing residency training
- **application deadline:** Nov 1

The General Preventive Medicine Residency (GPMR) prepares physicians in the theoretical, practical, and clinical knowledge and skills essential to leadership roles in the design, management, and evaluation of population-based approaches to health. Preventive medicine is the medical practice focusing on the health of individuals, communities, and defined populations. Its goal is to protect, promote, and maintain health and well-being and to prevent disease, disability and death.

The program is fully accredited by the Accreditation Council for Graduate Medical Education (ACGME). Completion of the program leads to eligibility for certification by the American Board of Preventive Medicine.

Graduating medical students in the U.S. or Canada have the option of selecting the GPMR through the National Resident Matching Program; such residents do a rotating internship at the Mary Imogene Bassett Hospital in Cooperstown, N.Y., prior to beginning their academic year at Johns Hopkins. Applicants for this position must apply simultaneously to GPMR for admission to begin the year following the internship. This combined internship/residency program is limited to one resident each year.

Also available and in conjunction with the Franklin Square Hospital Center Department of Family Medicine, is a joint program in Family Medicine and Preventive Medicine.

**Program Overview**

The first year of residency training begins in July and is a combined residency and Master of Public Health (MPH) degree year. The MPH program is enriched by a two-month summer orientation to the specialty of preventive medicine. Throughout the year, preventive medicine seminars, annual Grand Rounds, and a preventive medicine core course enhance the educational program. Residents are expected to participate in preventive medicine research during the academic and/or practicum years of the residency; publication and presentation of research results are encouraged. Residents will also participate in a weekly clinic experience in each year of the program to fulfill the new clinical requirement.

The second year of the program is designed to train the resident in a variety of preventive medicine skills through practical preventive medicine rotations that last two to three months each. The program offers approximately 20 different established rotations in a wide variety of local, state, federal and international public health settings. Residents complete a minimum of one rotation in each of the following competency areas: biostatistics/epidemiology, management and...
administration/medical management, and either clinical preventive medicine or occupational medicine/environmental health.

A one-month elective in preventive medicine is available for third- or fourth-year medical students who have completed some clinical rotations, as well as for residents in other specialties.

**Funding**

All residents receive full tuition, stipend support, as well as individual health, dental, life and disability insurance coverage.

For more information on the GPMR, visit www.jhsph.edu/academics/residency-programs/general-preventive-medicine-residency

**Occupational and Environmental Medicine Residency Program**

duration: 2 years**

special application requirement: must have completed at least one year of ACGME-accredited clinical training (PGY-1) in the U.S. prior to commencing residency training

application deadline: Oct 15

The overall objective of the Occupational and Environmental Medicine Residency (OEMR) is to train specialists for careers in any of the major sectors of the field—academia, industry, government, clinical practice, or labor—and provide expertise in both clinical and preventive aspects of occupational and environmental medicine.

The program is fully accredited by the Accreditation Council for Graduate Medical Education (ACGME). Completion of the program leads to eligibility for certification by the American Board of Preventive Medicine.

**Program Overview**

During the duration of the 24-month OEMR program, residents complete coursework leading to the Master of Public Health (MPH) degree, plus certain experiences specific to the residency such as seminars, research projects and plant visits. In addition, residents participate in practicum rotations in a variety of settings, including clinical, government, industry and union organizations.

**Funding**

All residents receive full tuition, stipend support, as well as individual health, dental, life and disability insurance coverage.

For more information on the OEMR, visit www.jhsph.edu/academics/residency-programs/general-preventive-medicine-residency

**ADMISSIONS REQUIREMENTS**

To apply to a residency training program, submit a complete application to Admissions Services.

DO NOT APPLY THROUGH SOPHAS.

Learn “How to Apply” by flipping to page 60 or by visiting www.jhsph.edu/admissions

In addition to the application materials required by Bloomberg School admissions, residency applicants must also submit the following:

- USMLE scores
- Medical school dean’s letter
- ECFMG certification (if applicable)
- Verification of clinical training (a summative evaluation of internship training from the clinical program director will be requested once the applicant has been admitted)

Interviews are required. Applicants selected for interviews are contacted directly by the program office.

**ERAS**

Applicants may use the ERAS system to submit required documentation. If you choose to use the ERAS system, you MUST also complete the Bloomberg School application. Bloomberg School admissions will accept letters of recommendation and USMLE scores from the ERAS system, but all official transcripts must be sent directly to the admissions office.

Please note: Admission to the Bloomberg School’s Master of Public Health (MPH) program is a prerequisite for admission to the residency program.

JHSPH launches the first board-certified graduate medical training program at a school of public health. 1962
What is a Certificate?
Certificate programs offer focused academic training in specific areas of public health. They are designed for currently enrolled Johns Hopkins graduate students and post-doctoral trainees and/or non-degree students who have earned at least a bachelor’s degree from an accredited institution.

A growing number of certificates may be completed entirely online.

Eligibility, admissions and completion requirements vary by certificate. We’ve done our best to list any special application requirements under the appropriate certificate. However, these requirements can change and you should contact the appropriate certificate administrator with any questions.

For more information about our certificates, visit www.jhsph.edu/academics/certificate-programs

Certificate Programs for Hopkins Degree Students

Bioethics and Public Health Policy
Health Policy and Management
available start term(s): First & Third Terms
special application requirement: open to JHU graduate students only

The Certificate in Bioethics and Public Health Policy is designed for any graduate student enrolled in a program at the Johns Hopkins University. The focus of the certificate is to develop students’ ability to recognize and analyze moral problems in public health practice and research. The certificate will also develop one’s ability to further the public policy debate concerning moral problems faced in public health practice and research.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/bioethics-and-health-policy.html

Community-Based Public Health
Health, Behavior and Society
available start term(s): Summer, First, Second, Third, & Fourth Terms
special application requirement: open to JHU graduate students only

This certificate will train recipients in the skills and knowledge necessary for community-based public health program development, management and evaluation, community-based participatory research (CBPR) and other research in community settings. It will also train students in key competencies for community-based public health practice and research, including cultural competence; an understanding of the social and environmental causes of disease; and skills for collaborations across academia, health departments and community organizations.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/community-based-public-health.html

Gerontology
Epidemiology /
Health Policy and Management
available start term(s): First & Third Terms
special application requirement: open to JHU graduate students only

The Certificate in Gerontology is designed for doctoral students and post-doctoral fellows who are committed to a career in the field of gerontology and who wish to be broadly trained in gerontological competencies as well as in their particular area of specialization.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/gerontology.html

Health and Human Rights
Environmental Health Sciences
available start term(s): Summer, First, Second, Third, & Fourth Terms
special application requirement: open to JHU graduate students only

The Certificate Program in Health and Human Rights is designed to: increase understanding and foster positive attitudes among health professionals regarding the
key linkages among human rights ideals, legal guarantees of human rights, and the promotion and protection of public health; elaborate and explain details regarding the vital roles of health professionals in promoting human rights, especially the right to health, and building a culture of human rights; build familiarity with international human rights standards, instruments, and the numerous state-based and international laws related to human rights, especially those that impact upon the health of populations and individuals; introduce the skills needed to investigate, analyze and document abuses of human rights as they relate to health and public health practice.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/health-and-human-rights.html

**Health Communication**

*Health, Behavior and Society*

available start term(s): Summer, First, Second, Third, & Fourth Terms

special application requirement: open to JHU graduate students only

Students completing the certificate will have a basic understanding of the theoretical and applied aspects of Health Communication. Competencies achieved will include, but are not limited to: 1) awareness of behavior change and communication theories, 2) knowledge of media effects and audiences’ use of media/communication modes; and 3) recognition of quantitative and qualitative methods used in the study of Health Communication. Additionally, the Health Communication Certificate program will familiarize students with the design and evaluation (formative, process and summative) of communication messages, campaigns and programs.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/health-communications.html

**Health Disparities and Health Inequality**

*Health Policy and Management*

available start term(s): First & Third Terms

special application requirement: open to JHU graduate students only

The Certificate in Health Disparities and Health Inequality is open to students enrolled in any graduate degree program at Johns Hopkins University. The goal of the certificate program is to train future leaders in research on health disparities and health inequality, and to train individuals to identify the underlying causes of health inequalities and how to develop and implement effective solutions.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/health-disparities-and-health-inequality.html

**Health Education**

*Health, Behavior and Society*

available start term(s): Summer, First, Second, Third, & Fourth Terms

special application requirement: open to JHU graduate students only

Upon completion of the core courses for the certificate, students will have gained a broad understanding of health education principles, theories and strategies and will possess the competencies considered central to effective health education and promotion practice. Students will be able to assess individual and community needs for health education, plan and implement effective health education programs, evaluate the effectiveness of health education programs and coordinate the provision of health education services.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/health-education.html

**Humanitarian Assistance**

*International Health*

available start term(s): Summer, First, Second, Third, & Fourth Terms

special application requirement: open to JHSPH graduate students only

This certificate program focuses on humanitarian assistance in the international health context. The program is a major educational activity of the Center for International Emergency, Disaster and Refugee Studies. The Center receives technical assistance from the International Committee of the Red Cross, American Red Cross, UN High Commission for Refugees, U.S. Public Health Service and various humanitarian agencies and organizations.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/humanitarian-assistance.html

**Public Health Preparedness**

*Health Policy and Management*

available start term(s): First & Third Terms

special application requirement: open to JHSPH graduate students only

The Certificate in Public Health Preparedness is designed to provide the essential tools needed by public health practitioners to prepare for natural disasters, terrorism and other emerging threats. Students enrolled in this certificate will be trained to identify the major threats to public health and to identify public health issues during emergency situations and how to integrate the risk sciences, public health practice and public health surveillance systems as they relate to preparedness and emergency response.

- For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/public-health-preparedness.html
For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-students/vaccine-science-and-policy.html

Environmental and Occupational Health
Environmental Health Sciences
available start term(s): Summer, First, Second, Third, & Fourth Terms
special consideration: may be completed online

This certificate educates and trains students to identify major environmental health issues facing public health professionals. Courses explore sources of environmental agents, their distribution in community and work environments, routes of human exposure and possible health effects; basic biological mechanisms underlying the association between exposure and development of adverse health effects, and control strategies and interventions.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/environmental-and-occupational-health.html

1 Important Note: the Johns Hopkins Bloomberg School of Public Health is currently not accepting applications to select Certificate programs from residents of certain states. For more information about affected states and programs, please visit the website of the program.
Global Health
International Health
available start term(s): Summer, First, Second, Third, & Fourth Terms

special consideration: may be completed online

The Global Health Certificate teaches design and implementation of public health programs, and social, behavioral and management skills applied to underserved populations. It is designed for public health professionals who are practicing or plan to practice in developing countries and to degree seeking JHSPH students. Nondegree students take all courses for academic credit to earn the certificate.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/global-health.html

Global Tobacco Control
Health, Behavior and Society
available start term(s): Summer, First, Second, Third, & Fourth Terms

Intended students for this certificate are public health professionals who want specialized skills and knowledge to work in the area of global tobacco control practice and research. Tobacco use is the number one preventable cause of death in the world, and it is projected to kill one billion people in the 21st century unless effective tobacco control measures are implemented. In order to slow and ultimately end the global burden of tobacco-related death and disease, public health professionals, tobacco control professionals and research scientists need to be equipped with the technical skills necessary to advance global tobacco control efforts.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/global-tobacco-control.html

Health Finance and Management
Health Policy and Management
available start term(s): First & Third Terms

The Certificate in Health Finance and Management is designed to facilitate the development of skills and knowledge that are needed in today’s rapidly changing health care delivery environment. Students are provided with a basic grounding in the key areas of managing health services organizations, budgeting and financial management and leadership. Students then have an opportunity to focus in other key areas of interest as applicable to their current work situation or future career interests.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/health-finance-and-management.html

Healthcare Epidemiology and Infection Prevention and Control
Epidemiology
available start term(s): First Term

Designed to serve two audiences—masters and doctoral degree students and post-doctoral trainees at The Johns Hopkins University and junior and mid-level healthcare epidemiologists and infection control professionals aiming to prevent and control healthcare-associated infections and other adverse outcomes in the healthcare setting. The certificate will focus on epidemiologic and laboratory investigation, infection surveillance, policy development and implementation, education and information dissemination, implementation of interventions to prevent infections, cost-benefit analyses of interventions, and patient-oriented research to inform and improve the science of healthcare epidemiology and infection control and to improve quality of care.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/healthcare-epidemiology-and-infection-prevention-and-control.html

Humane Sciences and Toxicology
Policy Certificate
Environmental Health Sciences
available start term(s): Summer, First, Second, & Third Terms

This certificate program provides students with an understanding of the principles that govern the relationship between biomedical researchers and laboratory animals, demonstrates the application of transgenic, in vitro, computational, non-mammalian and non-animal research in toxicology, and illustrates the ways in which humane science and alternatives are used in setting regulatory standards and making environmental health policy decisions. Students will be introduced to the application of the “3Rs,” (reduction, replacement and refinement), which are the guiding principles of humane science as well as how the use of humane science principles in biomedical research can lead to more robust scientific methodology and knowledge.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/humane-sciences-and-toxicology-policy-certificate.html

Injury and Violence Prevention
Health Policy and Management
available start term(s): First & Third Terms

The Certificate in Injury and Violence Prevention provides high quality graduate training in injury control to individuals from a wide array of backgrounds. Students learn the fundamentals of assessing the impact of injuries on the public’s health, identifying groups at highest risk for various types of injuries, understanding the causes of injuries and determining the most effective means of preventing injuries or reducing their severity.

▷ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/injury-control.html
Maternal and Child Health
Population, Family and Reproductive Health
available start term(s): Summer, First, Second, Third, & Fourth Terms
special consideration: may be completed online

Upon completion of the core courses of the Maternal and Child Health (MCH) Certificate, individuals will gain a broad understanding of the field that focuses on the health and welfare of women and children. Competencies achieved will include, but are not limited to: understanding of the biological, social, and behavioral basis for a MCH program; knowledge of the historical development of the field of MCH; knowledge of significant past and current national legislative mandates relative to MCH; and an ability to identify essential gaps in existing programs serving mothers and children.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/maternal-and-child-health.html

Pharmacoepidemiology and Drug Safety
Epidemiology
available start term(s): Summer, First, Second, Third, & Fourth Terms
special consideration: may be completed online

The certificate will focus on core knowledge of pharmaco-epidemiology and drug safety as well as insights from these fields that can inform the work of policy makers, patients, clinicians and payers seeking to improve the quality and safety of medication use.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/pharmacoepidemiology-and-drug-safety-certificate.html

Public Health Economics
Health Policy and Management/ International Health/
Population, Family and Reproductive Health
available start term(s): Summer, First, Second, Third, & Fourth Terms

The Certificate in Public Health Economics will interest public health professionals who are just beginning their career as well as mid-career professionals. Participants in this certificate program will gain a broad exposure to general public health economic principles and theories, skills in identifying and applying the theories of economic evaluation to public health problems, and training in the communication and translation of economic principles to public health problems. Applicants apply through the Department of Population, Family and Reproductive Health.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/public-health-economics.html

Public Health Informatics†
Health Policy and Management
available start term(s): First Term
special consideration: may be completed online

Individuals who complete the Certificate in Public Health Informatics will gain a significant degree of competency in the area of health informatics within the public health context. It will allow them to perform management, policy and research functions with a higher degree of effectiveness within the increasingly digital environment. This certificate will help equip students to move into leadership positions in the public health/population health informatics field within the U.S. and other nations.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/public-health-informatics.html

Population and Health
Population, Family and Reproductive Health
available start term(s): Summer, First, Second, Third, & Fourth Terms

The certificate is designed to serve two audiences—master’s and doctoral degree students and post-doctoral trainees at The Johns Hopkins University and junior and mid-level pharmaco-epidemiologists and drug safety professionals. It will allow them to perform management, policy and research functions with a higher degree of effectiveness within the increasingly digital environment. This certificate will help equip students to move into leadership positions in the public health/population health informatics field within the U.S. and other nations.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/population-and-health.html

Mental Health Policy, Economics and Services
Mental Health
available start term(s): First Term

The goal of the certificate is to prepare students for a range of policy, advocacy and research careers within the field of mental health. The program introduces students to current issues in mental health policy including economic evaluation of mental and substance disorders and their treatments; access to mental health care treatments and utilization patterns; and mental health care financing, insurance, and delivery system issues in the U.S. The program orientates mental health policy, economics, and services training within the broader context of ongoing national health care debates.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/mental-health-policy-economics-and-services.html
Public Health Training Certificate for American Indian Health Professionals

International Health

available start term(s): Summer & Winter institutes

The overarching purpose of this public health certificate program is to promote participants’ capacity to address American Indian population health disparities through multidisciplinary public health approaches and culturally competent strategies. The certificate program examines four quadrants of influence: physical, behavioral, political and spiritual/emotional, which, in balance, comprise the sphere of public health for American Indian communities.

➤ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/public-health-training-certificate-for-american-indian-health-professionals.html

Public Mental Health Research

Mental Health

available start term(s): Summer, First, Second, Third, & Fourth Terms

This program provides graduate training in understanding the causes and consequences of mental disorders in populations. Courses describe clinical and behavioral features, the incidence and prevalence of disorders, and biological, genetic, social, neurological, developmental and psychological risk and protective factors that promote or influence the occurrence, persistence, or severity of mental and behavioral disorders. Effective research strategies in public mental health include operationalization of case definitions, measurement in populations, design of prevention strategies and analytical techniques that are particularly useful in research in public mental health.

➤ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/public-mental-health-research.html

Quality, Patient Safety and Outcomes Research

Health Policy and Management

available start term(s): First & Third Terms

special consideration: may be completed online

Individuals who complete the certificate will meet competencies in the core areas of quality, patient safety, and outcomes research. The certificate is intended to convey familiarity with the specified areas, rather than training in conducting research. Within the area of quality, individuals will explore frameworks and theories for assessing and improving the quality of medical care, current policy and programmatic areas in quality of care, and understand how to develop a workable quality improvement and evaluation plan. In the area of safety, individuals will recognize the extent of problems in patient safety in medical care, demonstrate knowledge of the basics of conducting an incident investigation and disclosing an adverse event and designing solutions to improve patient safety. In the area of Patient Outcomes Research, the importance and challenges of using patient and consumer reported measures in research, clinical practice and program evaluation will be explored in addition to the policy implications and study designs and methodologies that are unique to patient outcomes research.

➤ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/quality-patient-safety-and-outcomes-research.html

Risk Sciences and Public Policy

Environmental Health Sciences/Epidemiology/Health Policy and Management

available start term(s): First & Third Terms

The educational objective of this certificate program is to provide the student with an understanding of risk assessment methods and their application to public health risk policy and risk communication. The certificate program covers the scientific basis for assessing environmental and other public health risks, as well as providing the skills needed to evaluate the policy implications of these scientific relationships for reducing public health risks. Applicants apply through the Department of Health Policy and Management.

➤ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/risk-sciences-and-public-policy.html

Tropical Medicine

International Health/
Molecular Microbiology and Immunology

available start term(s): Summer & Winter institutes

special application requirements: graduate degree in health science or bachelor’s degree with significant experience

This five-week summer program is designed to provide training in tropical medicine and related public health issues through a multidisciplinary approach. It is also designed to prepare participants for working with current and emerging health problems in developing countries and health problems of travelers. This program focuses broadly on issues of tropical health and on clinical tropical medicine. Toward its conclusion, students will have acquired a strong scientific basis for preventing, diagnosis, treating and controlling tropical health problems.

➤ For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-for-hopkins-and-non-degree-students/tropical-medicine.html
CERTIFICATE PROGRAMS FOR NONDEGREE STUDENTS ONLY

Training Certificate in Public Health
Office of Continuing Education
available start term(s): Summer & Winter Institutes, First, Second, Third, & Fourth Terms
special application requirements:
successful completion of
> one biology course
> one math or statistics course
special consideration:
may be completed online

Upon completion of the training certificate the individual will be able to: use appropriate statistical methods for critical reading of reports of statistical analysis of public health problems; apply the basic concepts of epidemiology to the study of the patterns of disease and injury applied to public health; determine the role of environmental factors affecting the health of a population; identify the managerial and policy issues associated with the delivery, quality and costs of health care; identify the social, behavioral and cultural factors related to population health.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-open-to-non-degree-students-only/training-certificate-in-public-health.html

Training Certificate in Public Health Practice
Office of Continuing Education
available start term(s): Summer & Winter Institutes, First, Second, Third, & Fourth Terms
special application requirements:
successful completion of
> one biology course
> one math or statistics course

The certificate recipient will be able to: identify, analyze and use available disease and behavioral surveillance data; apply leadership in the management of health systems organizations; communicate effectively to constituencies both within and outside of the health system; determine public health information needs; use appropriate basic statistical, demographic, and epidemiologic techniques to evaluate data with attention to quality control issues; support state and local public health agency efforts in assessing health needs, quality of services, and strategies for health services research; identify and help fill needs for information and responses to new threats to public health.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-open-to-non-degree-students-only/training-certificate-in-public-health-practice.html

Training Certificate in Quantitative Methods in Public Health
Office of Continuing Education
available start term(s): Summer & Winter Institutes, First, Second, Third, & Fourth Terms
special application requirements:
successful completion of
> one biology course
> one math or statistics course

The certificate recipient will be able to: 1) evaluate the methods used to measure health effects in populations, 2) interpret basic, quantitative public health measures, 3) judge policy implications of public health data and research, 4) be familiar with the difficulties of collecting, interpreting and analyzing data and their implications, and 5) perform a critical review of public health/epidemiologic literature.

For more information on this certificate: www.jhsph.edu/academics/certificate-programs/certificates-open-to-non-degree-students-only/training-certificate-in-quantitative-methods-in-public-health.html
Additional Learning Opportunities

INSTITUTES OF PUBLIC HEALTH
Various departments within the Bloomberg School sponsor short-term, intense educational courses called Institutes. These Institutes are available to degree and non-degree students. They provide opportunities for public health practitioners and other professionals whose schedules demand a flexible, nontraditional approach to learning. They also serve as a convenient method for students to further their education in a variety of public health disciplines or to receive an introduction to a new field of study.

Institutes in the summer are held in Baltimore. The two-week Winter Institute is held in January with courses available in Baltimore and Washington, D.C. The Fall Institute is offered by the Department of Health Policy and Management in Barcelona, Spain. An ever-growing list of online courses are also available during the Summer Institute.

POSTDOCTORAL TRAINING PROGRAMS
The Bloomberg School provides opportunities for postdoctoral training in all departments. Individuals interested in postdoctoral training should first establish contact with a member of the faculty with whom they wish to work. Once a position has been identified, a formal application including official documentation of completed doctoral degree and other documents specified by your department are required. These materials must be received before you may start your position. The research interests of the School’s faculty can be found on the School’s website.

For more detailed information about postdoctoral training at the School visit www.jhsph.edu/academics/postdoctoral-training

ONLINE LEARNING
The Bloomberg School has an ever-growing catalog of online courses, certificates and degrees.

For more information regarding online learning opportunities, visit www.jhsph.edu/academics/online-learning-and-courses

For more information regarding online certificates, flip to page 52 or visit www.jhsph.edu/academics/certificate-programs

For more information regarding online degree options, see pages 9, 15, and 43 of this book

In addition to the above, the Bloomberg School has three initiatives providing public health information online for free.

OpenCourseWare (OCW)
Online library of materials used in the teaching of actual JHSPH courses http://ocw.jhsph.edu

iTunesU

Coursera
Massive Open Online Courses (MOOCs), high-quality online university courses www.coursera.org/jhu

RESEARCH CENTERS AND INSTITUTES
Since the Bloomberg School was founded, its graduate programs have been based on a cardinal principle of the inseparability of research, practice, service and education. Faculty are engaged in investigations that cover a wide variety of disciplines and interests. In addition, there are many education, practice and research centers that operate as departmental and interdepartmental bases for a wide range of activities related to public health. The Bloomberg School currently supports over 60 centers and institutes.

For a complete list of Centers and Institutes visit www.jhsph.edu/research/centers-and-institutes/directory/list

Additional information regarding Summer, Fall and Winter Institutes may be found at www.jhsph.edu/academics/continuing-education/institutes
How to Apply

ARE YOU READY TO APPLY?
The Bloomberg School uses **TWO separate application systems:**
› MPH applicants apply through SOPHAS
› All other degree applicants apply using the Bloomberg School application.

Please take your time, review our application tips and make sure you’re choosing the correct program and its corresponding application. Selection of the wrong program/application could potentially slow or stop the processing of your application.

› Not sure which application to use?
Visit [www.jhsph.edu/admissions/how-to-apply](http://www.jhsph.edu/admissions/how-to-apply) or contact Admissions Services at jhsph.admiss@jhu.edu

Applying to the MPH
Applications to Schoolwide MPH are processed through the Schools of Public Health Application Service (SOPHAS). This includes applications to the full-time MPH, online/part-time MPH, MPH/MBA, and MPH portions of the MPH/MSW, MPH/JD and MPH/MD.

› For more information on MPH application requirements, the SOPHAS application and where to submit supporting materials, visit [www.jhsph.edu/admissions/how-to-apply/mph-application-instructions](http://www.jhsph.edu/admissions/how-to-apply/mph-application-instructions)

Applying to All Other Bloomberg School Public Health Degrees
All other Bloomberg School applications (those for the MBE, MHA, MHS, MPP, MSPH, ScM, PhD, DrPH, ScD, certificates and Residencies—including the dual Residency/MPH) will continue to be processed through Admissions Services.

› For detailed instructions on how to apply using the Bloomberg School application, including a link to the online application, visit [www.jhsph.edu/admissions](http://www.jhsph.edu/admissions)

**Important Note:** the Johns Hopkins Bloomberg School of Public Health is currently not accepting applications to the online/part-time Master of Science in Public Health in Environmental Health Sciences and online/part-time Master of Public Health from residents of certain states. For more information about affected states and programs, please visit the website of the program.
APPLICATION DEADLINES
The Bloomberg School has over a dozen different application deadlines. Be sure to carefully review the deadline chart, locate your program and its respective deadline.

All application materials must arrive by the application deadline.

➢ To find the application deadline for your program, flip to page 64

APPLICATION REQUIREMENTS
Application requirements may also vary. In general, all degree program applicants submit:

➢ online application
   - MPH applicants through SOPHAS
   - All others through the Bloomberg School application

➢ official transcripts from ALL college-level educational institutions attended.
   (records from outside the U.S. must undergo a credentials evaluation)

➢ standardized test score
   (usually GRE)

➢ résumé or curriculum vitae

➢ personal statement

➢ three letters of recommendation

➢ TOEFL/IELTS scores
   (for international applicants from countries/education programs where English is not the official language)

➢ To learn the application requirements specific to your program, flip to page 63

The time it takes for materials such as transcripts and test scores to arrive may be longer than you think.

Apply early!

Transcripts
Regardless of the number of credits taken or whether the credits/grades appear on another transcript, the School requires official academic records, transcripts or mark sheets from all colleges, universities, graduate or professional schools attended.

➢ To learn more about this requirement, see www.jhsp.edu/admissions/application-requirements/transcripts.html

International Academic Records
If you’re an international student or a U.S. student who has studied internationally, your international academic records must be evaluated by an external, U.S.-based credentials evaluation agency.

➢ For additional guidance, including what evaluations are acceptable, visit www.jhsp.edu/admissions/international-students

Standardized Test Scores
A standardized test score is required of most degree applicants. The GRE is the most universally accepted, however, some programs will accept alternatives. Results of these exams are often used as an indicator for scholarship consideration.

Plan to take your exam far in advance of the application deadline. Despite the

APPLICATION Tips
1. Do your research.
The Bloomberg School offers many programs across the spectrum of public health. Read this book, review our website and/or contact the appropriate academic coordinator to learn which program best fits your interests and future goals.

2. Know your program.
With so many programs and similar abbreviations, it’s easy to get confused. But now more than ever, it’s imperative you know the name of the program you’re applying to—one of our programs now uses a different application system!

3. Know your program’s deadline.
Application deadlines vary by department, degree and sometimes degree track.

➢ See our chart of application deadlines on page 64 or at www.jhsp.edu/admissions/application-deadlines

4. Know your program’s requirements.
Application requirements vary by department, degree and sometimes degree track.

➢ See the application requirements chart on page 63 or visit www.jhsp.edu/admissions/application-requirements

5. Apply Online
No matter which program you’re applying to or which application you’re using, applications to the Bloomberg School are submitted online.

Allow yourself plenty of time. Transcripts and test scores take time to order and arrive.

Many of our departments do not conduct face-to-face interviews. Take time to ensure your application is an accurate representation of you, your abilities and your goals.
automated nature of many of these tests, results can take up to five weeks to reach their destination.

- For more information on standardized test scores, visit www.jhsph.edu/admissions/application-requirements/standardized-test-scores

Personal Statement
The personal statement is one of the most important components of your application. Many of our departments do not incorporate any type of interview in their decision making process, so your personal statement is a chance to tell YOUR unique story.

Stay focused and keep your statement to less than three pages.

Letters of Recommendation
Degree applicants are required to submit three letters of recommendation. These letters should come from supervisors who know your work or from faculty who know your academic abilities. If possible, a mix of the two is best.

English Proficiency Exams
The Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) is required of all applicants for whom English is not their first language and who are applying from countries where English is not the language of instruction.

- Further guidance, including minimum scores and which countries of origin are considered non-English speaking, may be found at www.jhsph.edu/admissions/international-students

MULTIPLE APPLICATIONS
We encourage you to have a clear focus regarding which program is best for you, but you are able to apply to more than one.

Applying to Multiple Programs (neither of which is the MPH)
To apply to multiple departmental programs, you must create separate Bloomberg School applications and pay separate application fees for each. If neither program is the MPH, you do not need to submit duplicate copies of supporting materials (e.g., transcripts, standardized test scores or letters of recommendation). However, you should submit separate personal statements explaining your varying interests.

Please answer “Yes” to the application question that reads, “Have you applied to JHSPH previously?” and enter the appropriate academic year.

Applying to Multiple Programs (MPH, plus a departmental program)
In this scenario, you would need to submit two separate applications as well as two sets of application materials: one application plus supporting materials to SOPHAS for the MPH application and one application plus supporting materials to the Bloomberg School for the departmental program.

MONITORING YOUR APPLICATION
Regardless of which application you use, once you submit your application, you may monitor its status by logging back into your online application account.

It does take time to process the thousands of applications we receive. A change in status will not be instantaneous and your patience is appreciated.

If you have questions at any stage in the application process, please feel free to contact us.

ADMISSIONS DECISIONS
When your application is submitted and all required materials are received and processed, your application will be marked complete and sent to the appropriate admissions review committee. The time it takes for a decision to be made on your application depends on your department and program. Once a decision has been reached, you will be notified by the department.

APPLYING TO NON-DEGREE PROGRAMS
Applying to a Certificate
The application process for certificates varies depending on your student status.

- Find detailed certificate application instructions at www.jhsph.edu/academics/certificate-programs/how-to-apply

Applying as a “Special Student Limited”
A Special Student Limited is a type of non-degree seeking student interested in taking courses for academic credit. The Bloomberg School allows students to take up to 16 units of credit as a Special Student Limited.

- For additional information on the non-degree application, visit www.jhsph.edu/offices-and-services/student-accounts-and-business-services/non-degree-application
Application Requirements

Application requirements vary by department and degree. The chart below identifies application requirements for each degree program. Non-degree, certificate and postdoctoral application requirements may be found on our website. All applicants are encouraged to visit the Admissions Services website at [www.jhsph.edu/admissions](http://www.jhsph.edu/admissions).

<table>
<thead>
<tr>
<th>Department</th>
<th>PERSONAL STATEMENT</th>
<th>RESUMÉ</th>
<th>TEST SCORE</th>
<th>ENGLISH LANGUAGE TEST*</th>
<th>ALL COLLEGE-LEVEL TRANSCRIPTS†</th>
<th>LETTERS OF RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Berman Institute of Bioethics</strong></td>
<td>required</td>
<td>required</td>
<td>GRE, MCAT or LSAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td><strong>Biochemistry and Molecular Biology</strong></td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>Master’s</td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>Doctoral</td>
<td>required</td>
<td>required</td>
<td>GRE</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td><strong>Biostatistics</strong></td>
<td>required</td>
<td>required</td>
<td>GRE</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>Master’s and Doctoral</td>
<td>required</td>
<td>required</td>
<td>GRE</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td><strong>Environmental Health Sciences</strong></td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>Master’s and Doctoral</td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>BA/MHS or BA/MSPH</td>
<td>required</td>
<td>required</td>
<td>not required</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td><strong>Epidemiology</strong></td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>Doctoral</td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>three required</td>
</tr>
<tr>
<td>BA/MHS</td>
<td>required</td>
<td>required</td>
<td>not required</td>
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<td>required</td>
<td>three required</td>
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<td><strong>Graduate Training Program in Clinical Investigation</strong></td>
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<td>required</td>
<td>USMLE and GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>two required (one must show funding)</td>
</tr>
<tr>
<td>Master’s</td>
<td>required</td>
<td>required</td>
<td>USMLE and GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>two required</td>
</tr>
<tr>
<td>Doctoral</td>
<td>required</td>
<td>required</td>
<td>USMLE and GRE or MCAT</td>
<td>required</td>
<td>required</td>
<td>two required</td>
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<tr>
<td><strong>Health, Behavior and Society</strong></td>
<td>required</td>
<td>required</td>
<td>GRE</td>
<td>required</td>
<td>required</td>
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*The Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) is required of all applicants for whom English is not their first language and who are applying from countries where English is not the language of instruction. Additional guidance may be found [www.jhsph.edu/admissions/international-students](http://www.jhsph.edu/admissions/international-students/).

*Applicants with international academic records should carefully review our credentials evaluation requirements at [www.jhsph.edu/admissions/international-students](http://www.jhsph.edu/admissions/international-students/).
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## 2016–2017 Academic Calendar

### Summer Institutes
- **Registration Begins for Summer Institute Term**: M Feb 6
- **Registration Ends for Summer Institute Term**: M May 19
- **New MPH Student Orientation/Registration**: M Aug 29–W Aug 31
- **Instruction Begins for Summer Term**: M Jul 25
- **Add/Drop Period for Summer Term (for full-term courses only)**: M Jul 25–F Jul 29
- **Last Day to Make Schedule Changes for Summer Term (for full-term courses only)**: F Jul 29

### Summer Term (39 class days)
- **Registration Begins for Summer Term**: M Jul 5
- **Registration Ends for Summer Term**: T Jul 14
- **New MPH Student Orientation/Registration**: M Jul 5
- **Instruction Begins for Summer Term**: M Jul 5
- **Add/Drop Period**: T July 5–F Jul 15
- **Last Day to Make Schedule Changes for Summer Term**: F Jul 15

### 1st Term (39 class days)
- **Registration Begins for 1st Term for Continuing & Special Students**: M Jan 16
- **1st Term Registration Ends for Continuing & Special Students**: F Jan 20
- **New Student Orientation/Registration**: M Aug 29–W Aug 31
- **Instruction Begins For 1st Term**: M Sep 1
- **Add/Drop Period**: Th Sep 1–W Sep 7
- **Labor Day Recess**: M Sep 5
- **Last Day to Make Schedule Changes For 1st Term**: W Sep 5

### 2nd Term (38 class days)
- **Registration Begins for 2nd Term**: M Oct 27
- **2nd Term Registration Ends**: F Nov 10
- **Instruction Begins For 2nd Term**: M Oct 27
- **Add/Drop Period**: Th Oct 27–W Nov 3
- **Thanksgiving Recess**: Th Nov 24–Su Nov 27
- **Last Day to Make Schedule Changes For 2nd Term**: Th Dec 8

### Winter Intersession
- **Registration Begins for Winter intersession**: M Jan 9
- **Winter Intersession Registration Ends**: F Jan 20
- **Add/Drop Period for Winter Intersession**: Varies Per Course
- **Online/Part-Time MPH New Student Orientation**: Su Jan 8

### 3rd Term (40 class days)
- **Registration Begins for 3rd Term**: M Jan 23
- **3rd Term Registration Ends**: W Nov 16
- **Martin Luther King, Jr. Holiday Recess**: M Jan 16
- **Instruction Begins for 3rd Term**: M Jan 23
- **Add/Drop Period**: M Jan 23–M Feb 3
- **Last Day to Make Schedule Changes for 3rd Term**: F Feb 16
- **Last Class Day of 3rd Term**: F Feb 16

### 4th Term (40 class days)
- **Registration Begins for 4th Term**: M Mar 27
- **4th Term Registration Ends**: M May 19
- **Spring Recess**: M Mar 20–F Mar 24
- **Instruction Begins for 4th Term**: M Mar 27
- **Add/Drop Period**: M Mar 27–F Apr 7
- **Last Day to Make Schedule Changes for 4th Term**: F May 5
- **Last Class Day of 4th Term**: F May 5
- **Public Health Convocation**: TBA
- **University Commencement**: TBA
- **Residency Program Ends**: F June 30
You’ve identified the academic program of your dreams. You submitted a complete and focused application. You’ve been admitted. What do you do about funding?

These next two pages should provide you with some ideas and resources.

First, understand that “funding” can mean several things. Money for educational expenses can come from several sources. There are scholarships, grants and loans (government and private).

Different offices within the Bloomberg School administer these varied resources.

Funding

SCHOLARSHIPS

Bloomberg School Scholarships are almost always awarded through the academic departments. The availability of such funds varies by degree, department and academic year.

Your application for admission also serves as your application for departmental funding.

If you want to learn more about scholarship availability specific to your interests, you should contact the appropriate academic coordinator.

Some examples of Bloomberg School scholarships are below.

Sommer Scholars
Named in honor of Alfred Sommer, Dean Emeritus of the Johns Hopkins Bloomberg School of Public Health, the Hopkins Sommer Scholars Program aims to develop the next generation of public health leaders. Ten Master of Public Health candidates are awarded scholarships each year. Students are selected for their superior academic abilities and leadership potential.

Brown Scholars
The C. Sylvia and Eddie C. Brown Community Health Scholarship is designed to train leaders who are committed to eliminating health disparities in Baltimore. Each year, scholarships are awarded to doctoral students who have an interest in improving the health and quality of life of underserved, vulnerable and low income populations.

Johnson & Johnson Scholars
The Johnson & Johnson Community Health Care Scholars Program provides funding for doctoral students to assist community health care organizations across the country in building capacity and improving access to quality health care for medically underserved populations.

For more information on these and other scholarships, visit www.jhsp.edu/admissions/scholarships/institutional-scholarships
FINANCIAL AID OFFICE
The Financial Aid Office provides assistance with federal and private loans and the Federal Work-Study Program. They provide extensive information on their website and friendly advice by email (jhsph.finaid@jhu.edu).

- For an overview of the Financial Aid Office, visit www.jhsph.edu/financial-aid

OUTSIDE FUNDING
While the School and its departments are able to provide funding for many of its students, unfortunately there are those we are unable to fund. We encourage these students to seek funding from appropriate external groups who help fund students through various means.

- For more information, regarding outside funding for education or research, visit JHSPH Student Funding Resources at www.jhsph.edu/SFR
- Additional resources for securing outside funding may be found on the website under Scholarships www.jhsph.edu/admissions/scholarships

**Tuition 2015-2016**
The following tuition rates and fees are for the 2015-2016 academic year. This information is also available at www.jhsph.edu/admissions/ tuition-and-fees.

**Doctoral, MBE, MHA, MHS, MPP, MSPH, ScM**
- full-time, 9-month academic year, 4 terms: $48,960
- full-time (12+ credits), per term: $12,240
- part-time: $1,020 per credit

**Master of Public Health**
- full-time, 11-month MPH academic year, 5 terms: $61,200
- full-time (12+ credits), per term: $12,240
- part-time: $1,020 per credit

**Postdoctoral Fellows**
- full-time, 9-month academic year, 4 terms: $800
  - per term: $200

**Special Students/Others**
- full-time (12+ credits), per term: $12,240
- part-time: $1,020 per credit

**Estimated Living Expenses**
Listed below are the estimated living costs for the 2015-2016 academic year. These costs were developed in compliance with the federal regulations used to determine a single student’s eligibility for federal student aid. The dollar amounts listed below are estimates only; actual costs may vary.

<table>
<thead>
<tr>
<th></th>
<th>9 Months</th>
<th>11 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room</td>
<td>$9,720</td>
<td>$11,880</td>
</tr>
<tr>
<td>Food</td>
<td>$4,185</td>
<td>$5,115</td>
</tr>
<tr>
<td>Transportation</td>
<td>$3,258</td>
<td>$3,982</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$2,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>Insurance</td>
<td>$2,910</td>
<td>$3,492</td>
</tr>
<tr>
<td>Personal</td>
<td>$1,872</td>
<td>$2,288</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$23,945</strong></td>
<td><strong>$29,257</strong></td>
</tr>
</tbody>
</table>
Life in Baltimore

Welcome, hon!

Baltimore, Maryland is rich in history, culture and charm—providing an abundance of enriching opportunities in and out of the classroom.

HISTORY

The town of Baltimore was founded in 1729 and quickly became a major port exporting tobacco and other early American goods. From its beginning, the city played a major role in U.S. history. Baltimore was the site of a Continental Congress in 1776. In 1814, it became the birthplace of the national anthem. In 1827, a group of merchants founded the Baltimore & Ohio, the first common carrier railroad in the U.S. In 1873, the director and largest investor of that railroad died, leaving a legacy that established a university and hospital in his name: Johns Hopkins.

For more Baltimore history visit http://baltimore.org/see-do/historical-attractions

CULTURE

Art lovers rejoice! Baltimore has a vibrant arts community, which includes a number of world-class museums. Three that immediately come to mind are the Baltimore Museum of Art, Walters Art Museum and the American Visionary Art Museum.

For those who enjoy the theater, Broadway shows are presented at the France-Merrick Performing Arts Center/Hippodrome Theatre. Contemporary drama and traditional gems are produced by the professional resident company at Center Stage, as well as many smaller, local venues.

Fine music is available from the Baltimore Symphony Orchestra, the Baltimore Chamber Orchestra, the Concert Artists of Baltimore and the Baltimore Choral Arts Society. Baltimore regularly attracts outstanding jazz, folk and rock artists, as well as ballet companies.

But if you’re looking for culture, you needn’t leave Johns Hopkins University. The university and medical institutions host a variety of art exhibits, performances, workshops, lectures and film series. Many of these cultural programs are open to the general public as well as to students, faculty and staff.

For more information on cultural events at Hopkins, visit:
- http://getintothearts.jhu.edu
- http://web.jhu.edu/cultural_affairs

RECREATION

Baltimore is home to Major League Baseball’s American League Champions, the Baltimore Orioles. The National Football League’s Ravens also call Baltimore home. Each team has its own state-of-the-art stadium in Camden Yards, just west of the Inner Harbor.

If the great outdoors calls you, there are approximately 6,000 acres of public parkland in the city. Parks include Druid Hill, Patterson and Cylburn Arboretum. The state of Maryland offers an additional 66 parks, all within a few minutes to a few hours drive of the city.

For more information about Baltimore, including housing and transportation, visit the Student Life section of our website, www.jhsph.edu/student-life
Community Involvement with SOURCE

SOURCE (Student Outreach Resource Center) is the community service and service-learning center for the JHU Schools of Medicine, Nursing, and Public Health. SOURCE provides academic, professional and personal development opportunities through community outreach and service-learning partnerships with approximately 100 community-based organizations in Baltimore City.

SOURCE serves as a channel for students, faculty and staff to connect with community organizations and local projects. SOURCE provides a way for students to enrich their education by applying theory to practice and helps students develop an appreciation for working with community-based groups through community service, volunteer positions, internships and practica, federal workstudy opportunities, research, short-term consultancies, academic service-learning course placements, and other involvement opportunities.

SOURCE also provides professional development for faculty who are interested in incorporating academic public health practice opportunities into their courses using service-learning. SOURCE partners with 100 community-based organizations of various types, including some of the following: advocacy organizations, chronic/infectious disease prevention groups, community clinics, cultural and ethnic groups, environmental organizations, mental health organizations, public schools and much more. SOURCE also partners with dozens of service-based student groups. A full directory of partnering community-based organizations and service-based student groups is available online.

SOURCE works with organizations throughout Baltimore, and has a particular but not exclusive focus on the East Baltimore neighborhoods close to the Johns Hopkins Medical Institutions (JHMI) campus. SOURCE participants apply their community outreach and public health skills while making a difference in the community.

For more information contact SOURCE at 410-955-3880, SOURCE@jhu.edu, or http://SOURCE.jhu.edu
Connect with JHSPH

Please continue to explore our academic community!

VISIT US ON THE WEB

The Bloomberg School website is rich with information and resources, especially for prospective students.
www.jhsph.edu

Admissions Blog
Take micro campus tours, get application tips and meet our staff through the Admissions Blog!
www.jhsph.edu/admissions/admissions-blog

Your Department or Program of Interest
Review detailed information about your specific department or program of interest, or compare programs.
www.jhsph.edu/departments

JHSPH Student Web Pages
Peruse a sample of current students, their degree programs and research interests. Contact them to ask any School-related questions you may have!
www.jhsph.edu/admissions/connect-with-current-students

JHSPH Faculty Pages
As recognized experts in fields ranging from AIDS to vitamin A, our faculty provides insight and information to news organizations, prospective and current students, and the community at large. Search the faculty directory by name, department or keyword.
www.jhsph.edu/faculty/directory/list

Interactive Map of Worldwide Research
Our faculty and students engage in a wide range of public health initiatives in more than 130 countries. The Global Projects Map provides a glimpse of where and what they’re doing.
www.jhsph.edu/faculty/research/map

Course Information
Find out what courses are currently being offered at the Bloomberg School.
www.jhsph.edu/courses

Follow Us Through Social Media
Use your favorite social media to follow news and events at the Bloomberg School.

› Facebook
  http://facebook.com/JohnsHopkinsSPH

› LinkedIn
  www.linkedin.com/company/3527

› RSS Feeds & Podcasts
  www.jhsph.edu/news/social-media-channels

› Twitter
  http://twitter.com/JohnsHopkinsSPH

› YouTube
  www.youtube.com/user/JohnsHopkinsSPH

Subscribe to the Magazine
Browse and subscribe to our award-winning magazine.
http://magazine.jhsph.edu

VISIT US IN PERSON

Consider this your official invitation!

Guided Tours
Sign up to talk with an admissions representative as you take a “walk” around our School.
www.jhsph.edu/admissions/visit/campus-tour

Fall Open House
Spend the day touring the School and meeting Bloomberg faculty and staff.
www.jhsph.edu/admissions/visit/open-house

Recruitment Calendar
Our recruiters travel far and wide. Meet them in your area!
www.jhsph.edu/admissions/meet-jhsph-in-your-area

University Calendar
Join the Bloomberg School for an upcoming lecture or special event.
http://calendar.jhu.edu/calendar

Admitted Student Visitors Days
These events allow Admitted Students to learn more about our unique School and ask specific questions. Admitted students will find event dates and a wealth of pertinent information on the Admitted Student Website (login and password required).
www.jhsph.edu/admissions/admitted_students
Helpful Contacts

Bloomberg School Student Affairs
Student Affairs Main Line
443-287-7277
www.jhsph.edu/offices-and-services/student-affairs

Admissions Services
410-955-3543
jhsph.admiss@jhu.edu
www.jhsph.edu/admissions

Career Services
410-955-3034
jhsph.careers@jhu.edu
www.jhsph.edu/offices-and-services/career-services

Disability Support Services
410-955-3034
jhsph.dss@jhu.edu
www.jhsph.edu/offices-and-services/student-affairs/disability-support-services

Financial Aid
410-955-3004
jhsph.finaid@jhu.edu
www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Records and Registration
410-955-3552
jhsph.registra@jhu.edu
www.jhsph.edu/offices-and-services/student-affairs/records-and-registration

SOURCE
(Student Outreach Resource Center)
410-955-3880
SOURCE@jhu.edu
http://SOURCE.jhu.edu

Student Life
410-502-2487
jhsph.diverse@jhu.edu
www.jhsph.edu/offices-and-services/office-of-student-life

Additional Schoolwide Offices
Student Accounts and Business Services
410-955-5725
jhsph.bursar@jhu.edu

Johns Hopkins Medical Institutions
Housing Office
410-955-3905
www.hopkinsmedicine.org/som/students/life/housing

International Services
410-955-3371
http://ois.johnshopkins.edu

International Society
410-955-3370
internationalsociety@jhmi.edu
http://ois.johnshopkins.edu/News_and_Events/The_International_Society/

Prospectus Team
So many people contribute to this publication, we would need another 70+ pages to name them all.

We hope they know how much their efforts are appreciated.

Our core team is as follows.

Managing Editor
Taryn Mallonee

Editor, Design & Production
Amy Galloway

Photos:
Amy Galloway
Chris Hartlove
Kyle Sherman
Katherine Tomaino
Leslie Vink
Remsberg, Inc.
Environmental Impact

By printing on this combination of papers, the Bloomberg School was able to save:

- Trees: 39
- Total Energy: 32 million BTUs
- Greenhouse Gases: 3,962 lbs CO2
- Wastewater: 17,958 gallons
- Solid Waste: 1,139 lbs

The interior of the JHSPH 2016-2017 Academic Prospectus was printed on FSC-certified Rolland Opaque 50% pcw. The cover was printed on FSC-certified Flo Gloss, 10% pcw. The paper was supplied by a SmartWay Transport Partner. Since 2004, SmartWay Partners have saved 50 million barrels of oil and 16.5 million metric tons of CO2 and other emissions that contribute to climate change through a collaboration between the U.S. Environmental Protection Agency and the freight sector.

Environmental impact estimates were made using the Environmental Defense Fund calculator. For more information, visit http://papercalculator.org.