A Community Resource Person (One Community’s Community Health Worker) in rural Malawi enrolls a community member into the One Community Project. This photograph was acquired via Photoshare, a service of the Knowledge for Health (K4Health) project, based at Johns Hopkins Bloomberg School of Public Health.

“Family Spirit” by Ed Cunicelli
Kendrea Jackson, pictured with her son, works with the Family Spirit home-visiting program, which has proven effective in Native American communities in reducing rates of maternal depression and substance abuse while boosting children’s social and emotional development. This photograph was submitted to Dean MacKenzie’s Public Health Photo Contest by Ed Cunicelli from the Center for American Indian Health at the Johns Hopkins Bloomberg School of Public Health.

Students participate in a rapid HIV test training session hosted through SOURCE, the Community Engagement and Service-Learning Center for the JHU Schools of Public Health, Nursing and Medicine.

Photograph by Nandi Bwanali
A Community Resource Person (One Community’s Community Health Worker) in rural Malawi enrolls a community member into the One Community Project. This photograph was acquired via Photoshare, a service of the Knowledge for Health (K4Health) project, based at Johns Hopkins Bloomberg School of Public Health Center for Communication Programs.
Letter from the Dean

We need you and your commitment to solving today’s complex public health problems!

Climate change and its related health effects, violence, the global epidemic of non-communicable diseases and the lack of mental health care in much of the world are pressing and persistent concerns. At the same time, the critical work of advancing strategies to prevent TB, HIV and other infectious diseases must not abate and requires the attention of the best that public health has to offer.

As the new dean of the Bloomberg School of Public Health, a top priority for me is the education of a diverse and global community of research scientists and public health professionals who will contribute to a deeper understanding and a more effective response to these and other challenges.

We prepare our students to be the best—to be the researchers, policymakers, practitioners and educators who will develop real-world, population-level solutions to fight the most intractable public health problems, and generate a positive effect on the lives and health of individuals across the globe.

Ranked as the #1 graduate school of public health for over 20 years, the Bloomberg School serves 2,347 students from 79 countries, with over 700 full-time faculty. With 10 departments and over 60 centers and institutes, a range of degree and dual-degree programs, we offer our students an unparalleled public health education.

Since the Bloomberg School’s founding in 1916 as the first independent, degree-granting school of public health, we have been—and remain—on the public health frontlines, pushing boundaries and seeking lifesaving solutions across a broad range of issues from chronic and infectious disease prevention to immunology, nutrition and child survival.

Our alumni, who number more than 24,000, hold top level positions in ministries of health, U.S. health departments and government agencies, research centers, academic institutions and a variety of other public and private organizations dedicated to the health and well-being of populations around the world.

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 our promise of a better world and meet a single, profound goal: Protecting Health, Saving Lives—Millions at a Time.

Ellen J. MacKenzie, PhD ’79, MSc ’75
Bloomberg Distinguished Professor
Dean
Johns Hopkins Bloomberg School of Public Health
At a Glance

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

Students
2,347 from 79 nations

Faculty
729 primary, 847 affiliated

Alumni
24,000+ Living

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: jhspadmis@jhu.edu

Departments
- Biochemistry and Molecular Biology
- Biostatistics
- Environmental Health and Engineering
- 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 22 percent of all grants and contracts awarded to the 58 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 page 5 or visit www.jhsp.edu
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- 39. Doctor of Public Health (Schoolwide)
- 42. Online Program for Applied Learning (OPAL) (Interdepartmental)
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What is Public Health?

Put simply, public health has a bold mission: “Protecting Health, Saving Lives—Millions at a Time.”

In medical fields, clinicians treat diseases or injuries, one patient at a time. But in public health, we prevent disease and injury. As researchers, practitioners and educators, we work with 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 we use our data to influence policy aimed at reducing all three conditions.

When William Henry Welch founded this school, 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 and today public health approaches are used in areas as wide-ranging as epigenetics, chronic disease, the science of aging, 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 roll our sleeves up and get to work in communities by influencing policies, identifying trends, implementing solutions and increasing healthy behavior.

Our work happens on a molecular level, and on a population-wide level. 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. As educators, we train the next generation of public health professionals who will create and carry out the programs and policies that improve health.

The following are some recent public health projects:

› Identifying ways to curb the epidemic of bullying in schools
› Developing a malaria vaccine to combat 429,000 yearly deaths
› Uncovering correlations between kidney function and heart disease
› Examining secondhand tobacco smoke levels and exposure
› Exploring environmental and genetic factors in autism
› Investigating the consequences of antibiotic use in industrial agriculture
› Developing emergency preparedness plans
› Improving technologies that make clean and safe drinking water
› Promoting policies that protect the global environment and sustainable practices
› Using evidence to strengthen family planning and reproductive health programs and policies
› Quantifying the links between human rights abrogation and poor health
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1795</td>
<td>Johns Hopkins is born on his family’s tobacco plantation in southern Maryland</td>
</tr>
<tr>
<td>1873</td>
<td>Mr. Hopkins dies, leaving $7 million to establish the Johns Hopkins University and Hospital</td>
</tr>
<tr>
<td>1876</td>
<td>Johns Hopkins University is founded in Baltimore</td>
</tr>
<tr>
<td>1895</td>
<td>The Certificate of Public Health program is established and William H. Welch founds the American Journal of Hygiene</td>
</tr>
<tr>
<td>1901</td>
<td>Dean Emeritus and alumnus D. A. Henderson leads the World Health Organization campaign to eradicate smallpox</td>
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<tr>
<td>1916</td>
<td>On June 13, Johns Hopkins University receives a grant from the Rockefeller Foundation to establish the School of Hygiene and Public Health</td>
</tr>
<tr>
<td>1920</td>
<td>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</td>
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<tr>
<td>1922</td>
<td>Biochemist E.V. McCollum and his team discover vitamin D</td>
</tr>
<tr>
<td>1926</td>
<td>Biochemist E.V. McCollum and his team discover vitamin D</td>
</tr>
<tr>
<td>1939</td>
<td>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</td>
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<tr>
<td>1948</td>
<td>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</td>
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<tr>
<td>1957</td>
<td>Alumnus Leroy Burney is the first Surgeon General to officially declare that cigarette smoking is a causative factor of lung cancer</td>
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<td>Alumnus Leroy Burney is the first Surgeon General to officially declare that cigarette smoking is a causative factor of lung cancer</td>
</tr>
<tr>
<td>1963</td>
<td>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</td>
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<tr>
<td>1966-1977</td>
<td>Dean Emeritus and alumnus D. A. Henderson leads the World Health Organization campaign to eradicate smallpox</td>
</tr>
<tr>
<td>1974</td>
<td>Susan P. Baker develops a key tool in injury prevention called the Injury Severity Score</td>
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<tr>
<td>1980s</td>
<td>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</td>
</tr>
<tr>
<td>1980s</td>
<td>Biochemist E.V. McCollum and his team discover vitamin D</td>
</tr>
<tr>
<td>1980s</td>
<td>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</td>
</tr>
<tr>
<td>1999</td>
<td>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</td>
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<tr>
<td>2001</td>
<td>The School’s name is changed to the Johns Hopkins Bloomberg School of Public Health to honor the support and contributions of Michael Bloomberg</td>
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<tr>
<td>2006</td>
<td>Faculty members Ronald Gray and Maria Wawer demonstrate reduction of HIV transmission by circumcision</td>
</tr>
<tr>
<td>2008</td>
<td>Nobel laureate Peter Agre leads the Johns Hopkins Malaria Research Institute in novel research aimed at reducing and eliminating malaria</td>
</tr>
<tr>
<td>2012</td>
<td>The Moore Center for the Prevention of Child Sexual Abuse is established and becomes the first academic research center focused on child sexual abuse prevention</td>
</tr>
<tr>
<td>2016</td>
<td>The School holds a Zika Symposium looking at the timeline of the epidemic, the research currently available, possible plans for dealing with the outbreak and the realities of policy clashing with culture and economic status.</td>
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<tr>
<td>2018</td>
<td>A study, led by Susan Sherman MPH, PhD ’00, finds low-tech, low-cost test strips show promise for reducing fentanyl overdoses.</td>
</tr>
</tbody>
</table>

THE FUTURE

How will you make public health history?
The Johns Hopkins Bloomberg School of Public Health offers eleven graduate degrees (eight masters’ and three doctoral) that will help students hone their skills and become exemplary public health professionals.

**Masters’ Degrees**
- Master of Applied Science (MAS)
- Master of Arts in Public Health Biology (MAPHB)
- Master of Bioethics (MBE)
- Master of Health Administration (MHA)
- Master of Health Science (MHS)
- Master of Public Health (MPH)
- 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)

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**Summary of Degrees**

### MASTERS’ DEGREES

**Master of Applied Science (MAS)**
The Master of Applied Science is a fully online, part-time degree. This innovative, interdisciplinary program is oriented towards skills-building and designed for working professionals. The MAS degree builds on the strength of the School, providing unmatched opportunities for advanced training, focusing on both local and global issues, to prepare students to address public health problems through multidisciplinary approaches that apply the latest scientific knowledge.

For more information about the MAS, see page 42 or visit [www.jhsph.edu/academics/online-learning-and-courses/online-programs/online-programs-for-applied-learning/index.html](http://www.jhsph.edu/academics/online-learning-and-courses/online-programs/online-programs-for-applied-learning/index.html/)

**Master of Arts in Public Health Biology (MAPHB)**
The Master of Arts in Public Health Biology is a fully online, part-time degree program. This innovative, interdisciplinary program focuses on biological tenets and research methods that are relevant to current issues in public health. The MAPHB degree integrates major strengths of the School, providing unmatched opportunities for advanced training to prepare students to observe, understand and address public health problems from a multidisciplinary perspective.

For more information about the MAPHB, see page 45 or visit [www.jhsph.edu/ph-biology](http://www.jhsph.edu/ph-biology)

**Master of Bioethics (MBE)**
The MBE is a 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 46 or visit [www.bioethicsinstitute.org/MBE](http://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.jhsph.edu/academics/degree-programs/masters-programs/master-of-health-administration](http://www.jhsph.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](http://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 48 or visit [www.jhsph.edu/academics/degree-programs/master-of-public-health](http://www.jhsph.edu/academics/degree-programs/master-of-public-health)

**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, 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](http://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](http://www.jhsph.edu/academics/degree-programs/masters-programs/master-of-science-in-public-health)

**DOCTORAL DEGREES**

**The Doctor of Philosophy (PhD) and Doctor of Science (ScD)**
The PhD and ScD programs are based within individual departments at the Bloomberg School. Both programs aim to teach methods of evidence-based research that may improve the health of populations. Students’ interests have ranged from preventing the spread of infectious diseases to influencing healthy behaviors to mitigating the epidemic of violence.

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

- For more information about PhD and ScD programs, see the appropriate department or visit [www.jhsph.edu/academics/degree-programs/doctoral-programs](http://www.jhsph.edu/academics/degree-programs/doctoral-programs)

**Doctor of Public Health (DrPH)**
The Schoolwide 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 and at least three years of public health related work experience.

A part-time program, the DrPH combines study in summer and winter institutes with online classes, a practicum and a dissertation. Students are anticipated to remain in relevant public health employment throughout their studies, and to undertake a practicum within their regular place of employment.

- For more information about the DrPH, go to page 39 or visit [www.jhsph.edu/academics/degree-programs/doctoral-programs/doctor-of-public-health](http://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:
  - Aging and Public Health
  - Child and Adolescent Health
  - Epidemiologic and Biostatistical Methods for Public Health and Clinical Research
  - Food, Nutrition and Health
  - Food Systems and Public 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

### Berman Institute of Bioethics
- Clinical Ethics
- Ethics, Policy and Emerging Biotechnologies
- Global Bioethics
- Public Health Ethics
- Research Ethics

### MBE
**Health Policy and Management**
- Health Administration

### MHA
**Health Policy and Management**
- Health Administration

### MSPH
**Environmental Health and Engineering**
- 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
- Population and Health
- Sexual and Reproductive Health
- Women’s Health

### MHS
**Biochemistry and Molecular Biology**
- Biostatistics
- Environmental Health and Engineering

**Epidemiology**
- Cancer Epidemiology
- Cardiovascular 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 and Outcomes Research
- Health Finance and Management

**International Health**
- Global Health Economics

**Mental Health**
- Mental Health

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

### ScM
**Biochemistry and Molecular Biology**
- Biostatistics
- Environmental Health and Engineering

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

**Health, Behavior and Society**
- Genetic Counseling

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

### MAS
**Interdepartmental**
- Community-based Primary Health Care Programs in Global Health
- Global Health Planning and Management
- Humanitarian Health
- Patient Safety and Healthcare Quality
- Population Health Management
- Spatial Analysis for Public Health

### MA
**Interdepartmental**
- Public Health Biology
### PhD

- **Biochemistry and Molecular Biology**
  - Biochemistry and Molecular Biology
- **Biostatistics**
  - Biostatistics
- **Environmental Health and Engineering**
  - Exposure Sciences and Environmental Epidemiology
  - Toxicology, Physiology and Molecular Mechanisms
- **Epidemiology**
  - Cancer Epidemiology
  - Cardiovascular 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
  - Population and Health
  - Sexual and Reproductive Health
  - Women’s Health

### DrPH

#### Schoolwide

*Students may customize their degree or pursue one of the following concentrations:*
- Environmental Health
- Health Equity and Social Justice
- Health Policy and Management
  - Healthcare Management and Leadership
  - Public Health Informatics
  - Quality and Patient Safety
  - Implementation Science

#### 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

### ScD

#### 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
  - DVM/MPH
  - JD/MPH
  - LLM/MPH
  - MA/MSPH
  - MSPH/RD
  - MPH/MBA
  - MPH/MSW
  - MD/MPH
  - 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.

**The Schoolwide DrPH is delivered primarily online, and through summer and winter institutes.**

**Students admitted to the following three online/part-time degrees may complete 80 percent of their coursework online:**
- Schoolwide MPH
- Environmental Health and Engineering: MSPH in Occupational and Environmental Hygiene
- Environmental Health and Engineering: MSPH in Toxicity Testing and Human Health Risk Assessment of Environmental Agents

**The following programs are completed entirely online:**
- Master of Applied Science in Community-based Primary Health Care Programs in Global Health
- Master of Applied Science in Global Health Planning and Management
- Master of Applied Science in Humanitarian Health
- Master of Applied Science in Patient Safety and Healthcare Quality
- Master of Applied Science in Population Health Management
- Master of Applied Science in Spatial Analysis for Public Health
- Master of Arts in Public Health Biology

Students should be aware of additional state-specific information for online programs found at: web.jhu.edu/administration/provost/programs_services/accreditation/state_authorization

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**CHART KEY**

*Applicants may not matriculate directly into this ScM degree*
Anthony K. L. Leung, PhD
Associate Professor
Department of Biochemistry and Molecular Biology

Research Spotlight

Dr. Anthony Leung’s lab is on the frontier of basic science and has the applications that can save lives—millions at a time. In Leung’s Lab, students and faculty conduct research on how proteins are modified with a chemical group called ADP-ribose and on how the removal of this protein modification ADP-ribosylation can affect virus and human cells.

In virus situations, destroying the ability to remove ADP-ribosylation can prevent a virus from surviving. Leung says, “We have identified fundamental mechanisms that many human disease-causing viruses share, and we can potentially design drugs and vaccines based on our findings. These lines of research are possible because we have experts and we collaborate...[we] join forces to make this happen.”

When applying his research to fundamental virulence mechanism shared between mosquito-borne Chikungunya virus and viruses that cause SARS and MERS, Leung collaborates with virus expert Dr. Diane Griffin from the Department of Microbiology and Molecular Immunology. He also collaborates with Dr. Ben Park in the Oncology department at the Johns Hopkins Hospital to look at how ADP-ribosylation removal affects the response to Tamoxifen—the most prescribed drug for estrogen receptor-positive breast cancer patients.

With all the collaborations and wide-ranging influences of ADP-ribosylation, Leung works with students to help them connect his research with their academic background and personal interests. Whether their background is strong in genetics or chemistry, Leung helps the students connect their interests with ongoing or new projects in his lab, and he mentors them through the discovery process.

“The strength of the School of Public Health is that you can have the cutting edge of the basic science and have the cutting edge of the infectious disease. When combined they make a big impact on discovery.”
DEGREE PROGRAMS

**MHS in Biochemistry and Molecular Biology**

duration: 1 year*
application deadline: April 15

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

MHS students in this track complete 64 credits during the four terms of the academic year. Beyond the core curriculum coursework, there is great flexibility in the program. The student’s coursework can be individualized depending 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*
Applicants may not matriculate directly into this degree

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.

ScM students are admitted initially into the MHS program. In the third term, MHS students with an interest in research may transfer to the ScM program. Approval is contingent upon the student identifying a faculty member willing to serve as their research mentor. 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 and research positions in industry or elsewhere.

**PhD in Biochemistry and Molecular Biology**

duration: 5 years*
application deadline: December 1

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, industrial research, science policy, science writing and scientific publishing.

In their first year, PhD students complete required coursework, participate in four laboratory rotations selected from more than 30 laboratories located within the School of Public Health or School of Medicine and choose a thesis adviser.

In their second year, 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

Students applying to this program should choose the PhD Biomedical Sciences in Public Health as the degree designation in SOPHAS, and then select the degree(s) to which they are interested in applying. Admissions decisions will be made separately by each degree program. In the personal statement, applicants should clearly express why they are interested in applying to the selected programs.

Completed applications with all materials, including GRE scores, are accepted up to December 15. 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.

*Learn “How to Apply” by flipping to page 58 or by visiting www.jhsph.edu/admissions

**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 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

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

Student Spotlight

School rankings, reputation and faculty brought Zhicheng (Jason) Ji to JHSPH for his ScM in Biostatistics in 2013. When he decided to stay for his PhD, it was because he couldn’t think of a better environment to continue learning and expanding his research.

While conducting research for his master’s degree, Jason began working with faculty outside the Department of Biostatistics. The collaboration he found within the School of Public Health as well as the School of Medicine not only inspired him in his research, but provided opportunities he wouldn’t have found elsewhere. Add the access to cutting edge technology, not just for computational biostatistics, but in genomic sequencing, and leaving was not an option in his mind.

Three years into his PhD, Jason works on developing statistical and computational methods for analyzing big and complex data emerging in functional genomics and single cell genomics. He applies his methods to discover new disease and pathway associations and elucidate gene regulatory programs in development and cancers.

After earning his PhD, Jason hopes to stay in academia and apply for faculty positions.

“Hopkins Biostatistics has the reputation of having the best environment one can find in academia, in which faculty & students work closely together in an apprenticeship-style model at the interface of statistical science and health science.”
Karen Bandeen-Roche, PhD, Department Chair
**DEGREE PROGRAMS**

**MHS in Biostatistics**
- duration: 1 year*
- special application requirement: must already have advanced degree in health science (e.g. MD or PhD)
- application deadline: Dec 1

The MHS in Biostatistics is intended for outstanding individuals who either already have a doctoral degree (e.g., PhD or MD) or are concurrently enrolled in a doctoral degree program at Johns Hopkins. The program is also open to students concurrently enrolled in a doctoral program at the Bloomberg School. The MHS in Biostatistics is not intended as a terminal degree for professional biostatisticians.

This program involves one year of coursework (64 credits), a comprehensive written exam and a culminating data analysis project.

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: Dec 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.

**PhD in Biostatistics**
- duration: 5 years*
- application deadline: Dec 1

The PhD in Biostatistics provides training in the theory of 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 58 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 masters’ students. The Bloomberg School offers a 75 percent tuition scholarship for 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 four to six fully-funded slots the department has available each year.

The department also offers a funded training program in 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 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

*The time it takes to complete a degree may vary by student and circumstances*
The Department of Environmental Health and Engineering (EHE) comprises a dynamic group of faculty, staff and graduate students at the masters’ and doctoral levels. 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.

“In the Environmental Health and Engineering department we consider the ‘environment’ in its broadest sense, including the natural, built and social environments. One of our unique strengths as a department is that we are multidisciplinary and we can tackle challenges from the molecular to the population level.”

Marsha Wills-Karp, PhD, Department Chair

Department Chair
Marsha Wills-Karp, PhD

Academic Program Administrator
Katie Phipps
410-955-2212
kphipps4@jhu.edu

Degree Programs
› Master of Health Science (MHS) in Environmental Health
› Master of Science in Public Health (MSPH) with tracks in - Occupational and Environmental Hygiene - Toxicity Testing and Human Health Risk Assessment of Environmental Agents
› Master of Science (ScM) in Environmental Health
› Bachelor of Arts (BA)/ Master of Health Science (MHS) or Master of Science in Public Health (MSPH)
› Doctor of Philosophy (PhD) in Environmental Health

http://ehe.jhu.edu/

Research Spotlight

In addition to teaching and mentoring students in the Department of Environmental Health and Engineering, Dr. Zhibin Wang has an epigenomic lab in the department. He describes his lab as the “black box between the toxicant and the disease.”

When Dana Freeman, PhD candidate, began her lab rotation with Dr. Wang she knew she wanted to combine neurotoxicity and epigenetics. Although neurological research wasn’t taking place in his lab, Dr. Wang embraced Dana’s interests and they collaborated to design Dana’s research thesis. Dana’s thesis examines how environmental exposures that are known risk factors for Parkinson’s disease alter gene expression through the epigenome.

So far Dana has found that these exposures are causing reduced DNA methylation and has identified one protein that is central to this mechanism in Parkinson’s Disease. Dana’s research could easily be applied to similar neurodegenerative diseases because of the aggregated clumps of proteins. Dr. Wang also believes that there are autoimmune diseases that could be informed by the research because of similar epigenetic processes.

Dr. Wang encourages students interested in environmental issues to look at environmental health degrees because they offer training on how to bridge the gap between the disease and environmental influences. With training in both the toxicant exposure and the disease pathogenesis, graduates find more career opportunities and conduct more informed research.
Coursework in the first year mirrors that of the MHS, consisting of the same core requirements and elective options. Instead of a capstone essay, ScM students write a research proposal, and at the end of their first year, complete a comprehensive oral examination. The second year is focused on research that results in a formal thesis.

Graduates of the program are well-prepared to pursue doctoral degree programs and are also competitive for research positions in the private sector, federal agencies and non-governmental organizations.

**ScM in Environmental Health**

**duration:** 2 years*

**application deadline:** April 15

Individuals with a serious interest in pursuing research careers in environmental health should consider a Master of Science (ScM). Often, ScM students have experience working in the laboratory, field or population-based investigations and seek to build upon that experience.

Prospective students initially apply to the MHS program, indicate their interest in the ScM program on the application, and begin talking with potential faculty advisers. Highly successful MHS students who have identified a departmental faculty member willing to serve as their thesis adviser may apply for a transfer to the ScM program during the second term.

**DEGREE PROGRAMS**

**MHS in Environmental Health**

**duration:** 1 year*

**application deadline:** April 15

Environmental health addresses the health impacts of everything around us: from the air we breathe, the water we drink, the food we eat, and the neighborhoods and buildings in which we live, work, learn and play. The Master of Health Science (MHS) provides an academic foundation for further training in medicine or doctoral programs. Graduates also successfully pursue positions in the governmental, non-profit and private sectors.

Students develop a close bond with each other and their adviser over the course of the year. Coursework comprises the base of the program, which includes as its capstone the writing and presentation of a literature-based essay.

MHS students in the department have the flexibility to customize their curriculum or choose from a focus area:

- Human Toxicology, Pathophysiology and Risk Assessment
- Population Environmental Health
- Food Systems, Water and Environmental Sustainability
- Pre-med

**ScM in Environmental Health**

**duration:** 2 years*

Applicants may not matriculate directly into this degree

Graduates will be eligible to sit for the examination to become Certified in Public Health (CPH) by the National Board of Public Health Examiners.

**Occupational and Environmental Hygiene Track** 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 Engineering and Technology (ABET) Applied and Natural Science Accreditation Commission and designed to prepare students to pass the Certified Industrial Hygienist (CIH) examination given by the American Board of Industrial Hygiene. Graduates are employed in consulting, private industry and/or government.

**Toxicity Testing and Human Health Risk Assessment of Environmental Agents Track** is intended for students who wish to pursue a career or enhance their current activities in risk assessment with emphasis on the combined use of traditional in vivo and emerging in vitro and in silico models. Students learn testing approaches used in classic risk assessment processes, as well as those used in the new paradigm for toxicity in the 21st Century.

Students completing this program may also fulfill the requirements for the Certificate in Risk Sciences and Public Policy. Graduates will be prepared to play an essential scientific role in the evaluation of toxicity testing data and their utilization in the regulatory process.

*The time it takes to complete a degree may vary by student and circumstances*
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 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 masters’ program will be granted to applicants.

PhD in Environmental Health

duration: 5 years*
application deadline: Dec 1

Students in the PhD program select from one of two tracks within the Department: Exposure Sciences and Environmental Epidemiology or Toxicology, Physiology and Molecular Mechanisms. Through core and track-specific courses, research rotations, qualifying examinations and mentored research, graduates are prepared to be independent investigators who engage in scholarship that creates new knowledge, use research to transform practice and improve environmental health, and effectively communicate research findings.

PhD Tracks

Exposure Sciences and Environmental Epidemiology offers research and training opportunities in all areas relevant to environmental and occupational health. Students can customize their coursework around one of several focus areas: exposure sciences, environmental epidemiology, occupational health, and sustainability. 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.

Graduates in Exposure Sciences and Environmental Epidemiology 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.

Toxicology, Physiology and Molecular Mechanisms focuses on the pathology of diseases for the developing prevention and therapeutic strategies to improve public health. Globally, chronic diseases such as COPD, asthma, cancer, pulmonary fibrosis and cardiovascular diseases are major causes of morbidity and mortality, and environmental exposures are a key driver of these diseases.

Students will take in-depth courses in molecular, toxicologic, immunologic and pathophysiological sciences. During the first year, students will begin to engage in research by doing lab rotations with selected faculty. Graduates of this program will have the laboratory skills to tackle complex environmental diseases for careers in academia, industry and government.

Students applying to this program should choose the PhD Biomedical Sciences in Public Health as the degree designation in SOPHAS, and then select the degree(s) to which they are interested in applying. Admissions decisions will be made separately by each degree program. In the personal statement, applicants should clearly express why they are interested in applying to the selected programs.

Learn “How to Apply” by flipping to page 58 or by visiting www.jhsph.edu/admissions

ADDITIONAL EDUCATIONAL OPPORTUNITIES

The Department of Environmental Health and Engineering 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

For more information regarding certificates, flip to page 56 or visit www.jhsph.edu/academics/certificate-programs

DEPARTMENTAL FUNDING

MHS and ScM students are eligible for a limited number of partial-tuition scholarships to be used toward full-time study. As decided by a committee of faculty members, the awards are offered to selected students based on their prior academic achievements and experience.

All full-time, second-year MSPH and ScM students in good academic standing are eligible for a Master’s Tuition Scholarship (MTS) from the Bloomberg School. The MTS provides 75% tuition support during the second year of the program.

Full-time, second-year MSPH-OEH students are eligible for a limited number of partial-tuition awards from The NIOSH Education and Research Center (ERC). As decided by a committee of faculty members, the awards are offered to selected students based on their prior academic achievements and professional potential.

Typically, students admitted to the PhD program are offered full funding (matriculation fee, tuition and health insurance) and a stipend for living expenses. Funding for non-U.S. citizens is extremely limited. Given that the admissions process is highly competitive, be sure to submit your application—with all supporting documents—by the published deadline.

For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid
Alumni Spotlight

A PhD graduate from the Department of Epidemiology, Jim Aizire has more than ten years experience researching the prevention of mother-to-child transmission (PMTCT) of HIV-1. Jim studied medicine at Makerere University School of Medicine before joining 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 completed his PhD exploring long-term complications associated with in-utero and postpartum exposure to antiretroviral drugs for PMTCT among HIV-uninfected children born to HIV-infected mothers. In particular, he studied physical growth and hematological outcomes among Malawian and Ugandan children enrolled in an ongoing longitudinal follow-up study. The insights gained are timely given a growing but unsubstantiated concern with some of the antiretroviral drug types and are likely to have clinical and policy implications in Sub-Saharan Africa where more than 90% of the global PMTCT burden exists. He is currently working on a number of projects with Dr. Taha El Tahir Taha and Dr. Gregory Kirk across several countries in eastern and southern Africa.

After graduation, Jim joined the Department of Epidemiology as an assistant scientist and is conducting AIDS and liver cancer research in hopes of finding innovative interventions to improve the health of adults and children globally and particularly in sub-Saharan Africa.
The time it takes to complete a degree may vary by student and circumstances. Students must complete the BA degree before formally enrolling in the health studies for admission to the BA/MHS program. Admitted students' poster symposium. The programs differ in breadth and scope depending on the student's background and research focus within the department.

DEGREE PROGRAMS

MHS and ScM

duration: 2 years*

application deadline: Jan 15

The department provides broad training in general epidemiology and in one of eight tracks. Both masters' programs in epidemiology are campus based and consist of coursework and a thesis. Masters' 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 masters' 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, including city, county or state health departments and academic research institutions. Students often continue their studies through additional doctoral or medical degree programs.

BA/MHS

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

The department will consider JHU undergraduates majoring in public health studies for admission to the BA/MHS program. Admitted students must complete the BA degree before formally enrolling in the MHS program. Up to 16 of the public health credits earned at the Bloomberg School toward the BA may also be used to fulfill the MHS degree. Undergraduate students should take multiple courses in natural sciences and mathematics as well as Fundamentals of Epidemiology prior to applying to the program.

PhD and ScD

duration: 4 years*

application deadline: Dec 1

The doctoral programs in Epidemiology are comprised of two years of full-time coursework followed by two years of intensive and independent research. Students may design their research to be completed in any appropriate setting locally or throughout the world. Doctoral students complete a minimum of 128 credits, serve as teaching assistants, pass a written comprehensive exam and two 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, consulting and private industry, and in academic research institutions.

MHS, ScM, PhD and ScD Tracks

Cancer Epidemiology* offers a vibrant mix of didactic training, student-faculty discussions and research experience in cancer etiology, prevention and control. Three integrated training tracks are offered: cancer etiology and prevention, genetic epidemiology of cancer and cancer control. Course offerings include "Etiologic and Preventive Aspects of Cancer" and "Fundamentals of Cancer: Cause to Cure".

Cardiovascular 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 collaborative approach and active participation in research. A number of large ongoing cohort studies and clinical trials provide a rich environment 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 studies involving the evaluation of preventive and therapeutic approaches to health problems. Essential training in Systematic Reviews and Meta-Analyses offer students the opportunity to work with each other and with colleagues through close collaboration with the Cochrane Center.

Environmental Epidemiology concentrates on the epidemiology of diseases 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 government

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

† 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.
and provide excellent opportunities for student research. Many collaborative efforts exist with the Department of Environmental Health and Engineering.

**Epidemiology of Aging** is intended for masters’, doctoral and postdoctoral students 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 training in epidemiologic methods as well as providing individualized or customized training in statistical epidemiology, pharmacoepidemiology 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 and 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](http://www.jhsph.edu/departments/epidemiology/tracks)

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### ADDITIONAL EDUCATIONAL OPPORTUNITIES

The department offers the following certificate programs:

- Clinical Trials
- Epidemiology for Public Health Professionals
- Healthcare Epidemiology and Infection Prevention and Control
- Pharmacoepidemiology and Drug Safety

For more information regarding certificates, flip to page 56 or visit [www.jhsph.edu/academics/certificate-programs](http://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 2.75 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 100% tuition support for all incoming full-time doctoral students beginning in the first term for up to four 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.

Doctoral students are expected to serve as research and teaching assistants and write grants to augment their living expenses.

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 62 or visit [www.jhsph.edu/offices-and-services/student-affairs/financial-aid](http://www.jhsph.edu/offices-and-services/student-affairs/financial-aid)
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 provide competence in a 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. 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.

Student Spotlight

Michelle Johansen came to Johns Hopkins Hospital as a Clinical Fellow because of the people eager to mentor and collaborate with her in research. At that point in her medical career, Michelle was also feeling the desire to compliment her excellent clinical training with the research techniques gained in a PhD program. Now in her third year of her PhD in the Graduate Training Program in Clinical Investigation, Michelle values her path of clinical training first, then research training.

“In clinical investigation, the whole idea is that you have a research drive and research interest, but your focus is on the human being that you’re taking care of, which is why I love the program so much.”

Michelle also finds the program central to her role in the field of Vascular Neurology. “If you’re a good practitioner, you get to a point where you can’t answer the questions you want to answer, especially in neurology. What we can do is research. The ability to walk into the consenting patient’s room for a study and explain why you’re doing what you’re doing offers a bit of hope,” she explains. “Having the tools to be able to explain the action steps is critical.”

Michelle’s research interest lies in the heart brain connection, specifically with regards to earlier diagnosis and ultimately prevention of cardioembolic stroke. Current research efforts focus on characterizing and then utilizing markers of cardiac anatomy in ischemic stroke patients to improve stroke subtype diagnosis, codify risk of stroke recurrence, describe patient functional outcomes and pave the way for improved therapeutic strategies.
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.

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.

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 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 62 or visit www.jhsp.edu/offices-and-services/student-affairs/financial-aid
Alumni Spotlight

After graduating from Swarthmore College with degrees in Sociology/Anthropology and Biology, Zoé Hendrickson worked for the Yale Medical School conducting public health research as a junior research assistant. Her decision to continue her education at the Bloomberg School of Public Health was greatly influenced by alumni coworkers and mentors who were in regular contact with their JHSPH mentors, the variety of academic backgrounds in the Department of Health, Behavior and Society (HBS), and the welcoming and encouraging atmosphere by department faculty while researching the department and school.

Zoé is interested in how social inequalities and marginalization influence healthcare seeking, particularly how household gender dynamics and gender inequities affect reproductive health. Her PhD dissertation research explored how men’s labor migration particularly affects women’s daily lives and reproductive practices as gender roles and responsibilities shift within the household. Zoé spent a total of five months living in Nepal collecting data for her research and working with the Bloomberg School’s Center for Communication Programs.

As a department populated with professors from a variety of backgrounds, Zoé’s interests in social theory and its relevance to public health was encouraged. This diversity of perspectives within the Department of Health, Behavior and Society remains her favorite thing about her time in the PhD program. She stresses the importance of interacting with people who have very different research interests and how it strengthens her own research by challenging her assumptions and ultimately making her findings more accessible to others.
**DEGREE PROGRAMS**

**MHS in Social Factors in Health**

duration: 1.5 to 2 years*
application deadline: Jan 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.

Completed applications for the MHS program received prior to January 15 will be considered priority. The program will continue to accept and review complete applications on a rolling basis if the class maximum has not been met.

**ScM in Genetic Counseling**

duration: 2.5 years*
application deadline: Jan 15

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 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.

**MSPH in Health Education and Health Communication**

duration: 1.5 to 2 years*
application deadline: Jan 15

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 accepted in this 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.

Completed applications for the MSPH program received prior to Jan 15 will be considered priority. The program will continue to accept and review complete applications on a rolling basis if the class maximum has not been met.

**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

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

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Yonaira Rivera is a 3rd year PhD student in the Department of Health, Behavior and Society. Most recently, she made a difference by giving back to her home community. When Hurricane Irma hit Puerto Rico, she knew she had to do something. Her department donated money and the JHU community donated supplies. Yonaira took this aid to a remote community. “They hadn’t had state, local, federal [aid],” she says. “No one had come to see them.” Back in Baltimore, she started an organization with students from other divisions called Puerto Rico Stands.

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

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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 58 or by visiting www.jhsph.edu/admissions

**ADDITIONAL EDUCATIONAL OPPORTUNITIES**
The department offers the following certificate programs:

- Community-Based Public Health Certificate
- Health Communication Certificate
- Health Education Certificate

> For more information regarding certificates, flip to page 56 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.

The department offers several extramurally supported fellowships for doctoral students who are U.S. citizens and U.S. permanent residents. These training grants have varying numbers of available slots for students on a year-to-year basis. We are also pleased to offer scholarships to highly qualified and outstanding applicants.

> For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid
The Department of Health Policy and Management strives to influence the policymaking process by working with decision makers to develop rational, evidence-based arguments in support of new and improved policies. The faculty’s unmatched policymaking expertise provides a sound basis for effecting constructive systemic changes for promoting health, monitoring and evaluating the results of those changes and training tomorrow’s leading policymakers and administrators.

Our students go on to become leaders in public health in a variety of roles and sectors, including academia, federal and state government agencies, and in the private and nonprofit sectors. The department is committed to advancing research, education and practice in the following areas: bioethics and health policy; health services research and policy; health and public policy; health economics; and policy, leadership and management.

“If you’re interested in promoting the public’s health through policy, there is no better place to learn about the development, implementation and evaluation of effective health and social policies, than HPM. Our faculty are dedicated to advising and training future public health leaders in using sound management practices and creative leadership to find effective and equitable solutions to the most pressing public health challenges of today.”

Colleen Barry, PhD, Department Chair

Alumni Spotlight

Ellie Hwang spent six years working for a cardiac device company after graduating with her biomedical engineering degree from Duke University. After spending the majority of that time working directly with patients and physicians, she knew she wanted to return to school for a public health degree focused on health administration. JHSPH’s structure for the Master of Health Administration, a mix of classroom theory and an 11-month field placement, was exactly what she was looking for in a program.

Through the MHA curriculum, she developed a strong passion for change management. Ellie believes the “interactions of operations, culture, leadership, all of it, makes a huge difference in hospitals...for me it’s really important I understand how that functions—how the system works.” She appreciated looking forward to her field placement where she applied what she studied to real world situations.

She credits her engineering background to how she approaches problem solving. By taking the engineering approach of looking at the system and then the smaller items that go into that system, she finds many different solutions. Combined with change management, it allows her to be more creative in how she finds and implements solutions to conflicts that arise from the changes in the system.

Ellie completed her field placement with MedStar’s Emergency Physicians (MEP) and Institute for Innovation (MI2). The internship confirmed her desire to work on the provider side of health administration, and upon graduating began a full-time position with MI2.
DEGREE PROGRAMS

MHS in Health Economics and Outcomes Research
duration: 9 months*
priority application deadline: Jan 15
The Master of Health Science (MHS) in Health Economics and Outcomes Research is a nine-month academic program that offers students a foundation in evaluation methods necessary to promote the efficient and equitable allocation of healthcare resources in public health. Mastering these methods enables the graduates of the MHS program to evaluate healthcare and work with stakeholders and decision makers to identify relevant regulatory policies, strategies and interventions.

The MHS offers two tracks: one focused on economic evaluation and the other on outcomes research. Students will take a common core of courses, including health economics, economic evaluation, biostatistics, and epidemiology. Each track will allow students to take additional courses to hone their skills in their respective specialty. All students complete an independent research capstone project under the guidance of a faculty member.

Graduates of this program are well positioned to pursue careers in academia, government, and industry. This program also prepares students for doctoral training in economics and health policy.

Program requirements include a 64-credit one-year didactic curriculum and a culminating final scholarly paper or case study.

MHA
duration: 2 years*
application deadline: Jan 15
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).

MSPH in Health Policy
duration: 2 years*
application deadline: Jan 15
The MSPH in Health Policy is a professional degree, preparing students for health policy careers. In today’s fast changing public health policy landscape, health policy professionals have abundant opportunities to champion health policy and population health improvement.

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 providing a seamless transition to a health policy career. The course curriculum and field placement experience provide concrete training in public health policy development, analysis, implementation, communication and evaluation. Coupled with quantitative and analytic methods, students obtain 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 are in careers in a wide range of settings, including government, policy consulting, nonprofit and advocacy organizations, research companies and think tanks, academia and foundations.

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

*The time it takes to complete a degree may vary by student and circumstances.
The Department of Health Policy and Management strives to bring order to the policymaking process by working with decision makers to develop rational, evidence-based arguments in support of new and improved policies. The faculty’s policymaking expertise provides a sound basis for systemic changes to promote health, monitor, and evaluate the results of those changes and train tomorrow’s leading policymakers and administrators. HPM students go on to become leaders in public health in a variety of roles and sectors, including academia, federal and state government agencies and in the private and nonprofit sectors.

The Department offers a full-time PhD program with students choosing one of four concentrations: Bioethics and Health Policy, Health Economics and Policy, Health Services Research and Policy, and Health and Public Policy. The PhD program trains its students to conduct original investigator-initiated research in the area of health policy through a combination of coursework and research mentoring. This curriculum includes a set of core courses that is common across the four concentrations, along with courses specific to each concentration.

PhD Concentrations

Bioethics and Health Policy is designed for students interested in the ethical issues relevant to public health policy, practice and research.

Faculty affiliated with this concentration have expertise in moral philosophy and empirical methods. The faculty work across disciplines to understand topics in bioethics from multiple perspectives and contribute to current topics in public health, biomedical and behavioral research and biomedical science policy from obtaining informed consent in the learning health system to enhancing economic evaluation with attention to social justice concerns.

The curriculum focuses on bioethics as it relates to moral questions in public health and health policy (rather than, for example, in end-of-life decision making or dilemmas in clinical medicine) and emphasizes rigorous training in quantitative and qualitative empirical research methods.

Health Economics and Policy is designed for students interested in conducting innovative and rigorous research on the economics of health and healthcare.

Faculty affiliated with this concentration apply the theoretical concepts and empirical methods of economic analysis to various issues throughout the health sector, ranging from understanding underlying patient, provider and insurer behaviors to evaluating various healthcare interventions.

The curriculum focuses on a solid grounding in applied modern microeconomic theory, economic evaluation, quantitative methods and econometrics applications, including PhD-level courses from the Department of Economics in the Krieger School of Arts and Sciences. The curriculum offers a broad exposure to the health economics literature and public health disciplines, and stresses the policy implications of these fields of research.

Health Services Research and Policy is designed for students interested in gaining a firm grounding in public health principles, research and evaluation methods, policy analysis, and numerous content areas related to health and health services delivery.

Faculty affiliated with this concentration examine public and private sector health insurance and financing, organizations for the delivery of health care, methodologies for measuring and improving quality and safety of medical care, methods to measure personal and population health status, methods for assessing the impact of government health care policy on individuals and populations and comparative effectiveness methods for assessing the impact of technology and treatments on patient outcomes.

The curriculum focuses on acquiring 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 is designed for students interested in preventing leading public health problems through the development, analysis, implementation, and evaluation of public health policies.

Faculty affiliated with this concentration employ an interdisciplinary approach to their teaching, research and practice activities, which is reflected by their backgrounds in medicine, epidemiology, political science, sociology, law, environmental health and the risk sciences.

The curriculum focuses on how political, social, economic, ethical, cultural and legal factors affect health, and how public health policy can address these problems. 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.

INTERNATIONAL COHORT PROGRAMS

DrPH JHU-Tsinghua Cohort Program
duration: 4-6 years
special application requirements: at least three years health related experience and an MPH or equivalent Masters’ degree
application deadline: January 15

The JHU-Tsinghua DrPH is a cohort-based collaboration between the Bloomberg School’s Department of Health Policy and Management and the Institute of Hospital Management of Tsinghua University and Capital Healthcare Group Ltd. Students undertake the Healthcare Management and Leadership track, which is focused on measuring, monitoring and improving the clinical and financial performance of health services organizations, as well as training leaders for organizational change. Courses for the cohort program are offered in Beijing, China and Baltimore, Maryland USA, with limited online coursework.
MHS in Health Finance and Management, Asia-Pacific Program

duration: 2.5 years*

Please refer to program website for further application information

The MHS in Health Finance and Management, Asia-Pacific Program is a cohort-based collaboration between the Bloomberg School’s Department of Health Policy and Management and our collaborating partner International Educational Promotion Corporation (IEPC); a company located in Taipei, Taiwan. This academic program is designed to give students a foundation in health finance and management through interdisciplinary study.

Students participating in the cohort program will gain a foundation in public health finance and management through interdisciplinary coursework, gaining the skills necessary to achieve value-based health care in pursuit of continuous quality improvement. The cohort program is offered on a part-time basis, with classes taking place in Asia, the United States, and online. In addition to coursework, students will complete a capstone and poster presentation.

ADDITIONAL EDUCATIONAL OPPORTUNITIES

Certificates

The department offers the following certificate programs:

› Certificate in Gerontology
› Certificate in Health Disparities and Health Inequalities
› Certificate in Health Finance and Management (fully online)
› Certificate in Injury and Violence Prevention
› Certificate in Public Health Informatics (fully online)
› Certificate in Public Health Preparedness
› Certificate in Quality, Patient Safety and Outcomes Research (fully online)
› Certificate in Risk Sciences and Public Policy

For more information regarding certificates, flip to page 56 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

Masters’ Programs

The Department is committed to supporting our students. The Master’s Tuition Scholarship (MTS) provides up to a 75 percent discount in the second year’s tuition for the MSPH and MHA programs.

PhD Programs

The department is committed to providing competitive funding to full-time PhD students. Funding packages include four years of tuition, stipends, and individual health insurance. PhD students are encouraged to obtain additional funding during their dissertation phase.

For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid
The Department of International Health (IH) is a global leader and partner in building capacity and identifying, developing, testing and implementing practices and policies that help the world’s most vulnerable and disadvantaged people improve their health and well-being. As the oldest and largest Department of International Health in the world, International Health has networks with organizations across the world, opening up opportunities for our students to work almost anywhere in the world on almost any public health topic.

International Health draws on all relevant public health disciplines for application in global settings and emphasizes masters’ 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 and 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.

**Department Chair**
David Peters, MD, DrPH, MPH

**Academic Program Manager**
Cristina G. Salazar, MA
410-955-3734
csalazar@jhu.edu

**Degree Programs**
- Master of Health Science (MHS) in Global Health Economics
- Master of Science in Public Health (MSPH)
- Master of Arts (MA)/Master of Science in Public Health (MSPH) (with SAIS)
- Master of Science in Public Health (MSPH)/Registered Dietitian (RD)
- Bachelor of Arts (BA)/Master of Health Science (MHS) or Master of Science in Public Health (MSPH)
- Doctor of Philosophy (PhD)
- Concentrations for the MSPH and PhD
  - Global Disease Epidemiology and Control
  - Health Systems
  - Human Nutrition
  - Social and Behavioral Interventions

"Many employers are concerned about staff working overseas for the first time. Through the Department’s master’s practicum program, we send students all over the world—giving them the experience employers are looking for."

David Peters, MD, DrPH, MPH, Department Chair

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**Student Spotlight**

Pierre Muhoza’s biomedical background and desire to improve health and life in East Africa perfectly aligns with the Department of International Health’s Global Disease and Epidemiology Control PhD program. His favorite component of the department is the flexibility. “You can be specific and direct or broad and explore. The depth and breadth of experiences you can get is quite impressive.”

Pierre takes advantage of the flexibility because he comes to the department with limited international experience. “I envision needing quantitative methods in my career. I’m able to take classes that introduce me to new concepts I haven’t explored before, such as demography.”

“As a PhD candidate, I’m free to pursue any research interest and engage with different professors,” he adds. In just his first two years at JHSPH, Pierre has already worked with the International Vaccine Access Center, Center for Public Health and Human Rights and the International Center for Maternal & Newborn Health. Working with these research centers has been Pierre’s approach to dabbling in areas of international health he isn’t focusing on in his academic classes.

His area of research is the evaluation of public health program implementation with a focus on program effectiveness in achieving epidemiologic impact.
DEGREE PROGRAMS

MHS in Global Health Economics

duration: 9 months*
application deadline: Jan 15

The MHS in Global Health Economics teaches students how to use economic tools to help solve pressing global health problems. It provides students with a solid understanding of how incentives affect the behavior of individuals, patients, insurers and providers around the globe. Students become equipped to take an economic approach to promote more efficient financial systems, methods of payment, delivery of care and equitable allocation of resources.

The MHS in Global Health Economics is an academic degree, program that requires four academic terms of course work, a comprehensive exam and a scholarly paper. Students participate in classes spanning health economics, behavioral economics, economic evaluation, econometrics, statistics and epidemiology.

This degree is intended for students committed to public health or medicine and will prepare them to apply economic tools in solving pressing problems of global health.

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

MSPH

duration: 1.5 to 2 years*
application deadline: Jan 15

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. Applicants must choose a specific program area when applying to the MSPH.

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.

Program requirements consist of a minimum of four academic terms of coursework, a comprehensive exam, a practicum and a final capstone. The practicum must be a full-time activity, 4 to 12 months in length.

MSPH graduates pursue doctoral or medical degrees or go to work for bilateral/multilateral health organizations, non-profits or governmental/non-governmental public health institutions.

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.

For more information regarding the MA/MSPH, flip to page 51

MSPH/Registered Dietitian (RD)
special application requirement:
bachelor’s degree in nutrition-or science-related field (e.g. biology, chemistry, psychology) and college-level coursework in anatomy and physiology (two semesters), organic chemistry, biochemistry, psychology and/or counselling skills, introduction to nutrition
application deadline: Dec 1

Selected MSPH students in Human Nutrition can meet their practicum requirements by completing a supervised practice in dietetics at the Johns Hopkins Bayview Medical Center. For students who have a science-related undergraduate background and are interested in public health nutrition, this program offers 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.

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

JHSPH alumna Allyson Nelson (MSPH ’15) joined @Jhpiego after graduation and is currently working in Liberia to help the Ministry of Health build a more resilient health system. “My 9-person team is responsible for conducting studies and monitoring results to make our programs more efficient and effective,” Allyson says.

In her time at JHSPH, Allyson worked on implementing an innovative midwife training program in Ghana as well as an oral cholera vaccine study in Malawi. She says these experiences really helped her “learn how to manage multiple priorities, be flexible while still accomplishing the goal, and most of all, the importance of taking time to listen to the concerns and needs of the end beneficiary and their community.”

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BA/MHS in Global Health Economics or BA/MSPH in Global Disease Epidemiology and Control, Health Systems or Social and Behavioral Interventions

duration:
› BA/MHS, 5 years (for both degrees)*
› BA/MSPH, 5.5-6 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 International Health 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 if applying to the GDEC, Health Systems, SBI or Global Health Economics programs only. Students must specify which program they wish to pursue. Students in this program will receive co-advising from both schools in their senior year.

Students will need to take prerequisite courses prior to applying to the BA/MHS or BA/MSPH by the end of their junior year. Students with a cumulative GPA of 3.3 or higher by the time they apply will get a waiver of the standardized test scores requirement. Students applying to this program are not eligible to apply to the MA/MSPH or MSPH/RD.

PhD

duration: 4 years*
application deadline: Dec 1

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 or Social and Behavioral Interventions.

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

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

Interested PhD applicants should have a master’s degree in a related field prior to applying (Human Nutrition PhD applicants may be accepted if they have one or two years of experience working in nutrition).

MSPH and PhD Concentrations

Global Disease Epidemiology and Control (GDEC) 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 and vaccinology. 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 everything from vaccine clinical research to implementation and evaluation of vaccine programs, in both 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, USAID, UNICEF, 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 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 have also been displaced by conflict or natural disasters.

Applicants should have a prior degree in biological or health sciences or in management or social science. Some prior international or health systems experience is highly desirable. The MSPH curriculum focuses on planning and managing health projects and programs at the community, district, national and international levels.

Graduates will be capable of playing a management role in governmental and nongovernmental organizations (e.g. WHO, World Bank, USAID) to include design, implementation and 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 and capacity building, community development and health systems strengthening.

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 coursework, and with the guidance of experienced faculty advisers, doctoral and masters’ degree students acquire and apply knowledge and skills in nutritional issues across the life span, the role of nutrients in cells and biologic systems, nutritional epidemiology, socio-cultural aspects of nutrition and food and nutrition policy. Students are challenged to identify and consider solutions to important nutritional problems facing societies in terms of their causes, extent, severity and health effects throughout the life cycle.

MSPH practicums may involve domestic or international nutrition internships or research projects, either with nongovernmental organizations or with IH faculty. The PhD degree prepares candidates...
for careers in the design, conduct and publication of innovative re-
search 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 dietetic internship, medical training or other relevant work
experience.

**Social and Behavioral Interventions (SBI)** offers multidisci-
plinary training for researchers and public health practitioners who
wish to use the social sciences in the design, implementation and
evaluation of global public health programs, particularly community-
based interventions. The program’s goal is to work in partnership
with communities to understand local contexts and develop effective
programs that reflect the social, cultural and policy context of health
problems.

SBI’s primary focus is on the direct application of theory and data
collection into public health action. The combined use of qualitative
and quantitative methods is a defining characteristic of the program.
Students also gain a strong foundation in social and behavioral
theory and formative research to inform intervention development.
Community-based and participatory approaches are emphasized.

Applicants to the MSPH 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 master’s degree in a related field of study and have
some professional experience.

Learn “How to Apply” by flipping to page 58 or by visiting
www.jhsph.edu/admissions

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**ADDITIONAL EDUCATIONAL OPPORTUNITIES**
The department offers the following certificate programs:

- Certificate in Evaluation: International Health Programs
- Certificate in Global Health (degree-seeking students only)
- Certificate in Global Health Practice (fully online)
- Certificate in Humanitarian Assistance (degree-seeking students
  only)
- Certificate in Tropical Medicine (Summer Institute only)
- Certificate in Vaccine Science and Policy (degree-seeking
  students only)
- Public Health Training Certificate for American Indian Health
  Professionals (Summer and Winter Institutes only)

For more information regarding certificates, flip to page 56 or visit
www.jhsph.edu/academics/certificate-programs

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**Institutes**
The department also provides short-term, intensive educational
opportunities for public health practitioners and other professionals
through several institutes. The curriculum of the Summer Institute,
offered in June in Baltimore, Md., includes:

- American Indian Health
- Health Emergencies in Large Populations (H.E.L.P.)
- Health Systems
- Tropical Medicine

For more information regarding institutes, visit http://
www.jhsph.edu/departments/international-health/
continuing-education/institutes/

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**DEPARTMENTAL FUNDING**

**Masters’ Programs**
MSPH students are eligible for the Masters’ Tuition Scholarship: after
successfully completing 64 credits in didactic courses in year one,
all students will receive a 75 percent scholarship 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 ad-
mitted 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 scholar-
ships for most doctoral students. The scholarship pays for 75% of
tuition for four years. This scholarship is given provided the student
is enrolled full-time (minimum 16 credits) and is in good academic
standing.

For more information regarding funding, tuition costs
and financial aid, flip to page 62 or visit www.jhsph.edu/
offices-and-services/student-affairs/financial-aid
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 outcomes of mental health and mental disorders are distinguishing features 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.

Alumni Spotlight

A native Baltimorean with an undergraduate background in psychology, Luke Kalb was drawn to the Master of Health Science (MHS) in 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 for his PhD 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 for Autism and Developmental Disabilities.

“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 to answer 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.
DEGREE PROGRAMS

MHS in Mental Health
duration: 1 year*
application deadline: April 15

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.

Research is particularly active in the areas of psychiatric epidemiology; genetic epidemiology of mental and behavioral disorders, cognitive health and aging; psychoactive drug use; school, family, and community-based preventive interventions; research methodology; youth violence; women’s mental health and pregnancy; global mental health; child sexual abuse and pedophilia; autism spectrum disorder; and research on mental health service systems.

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 1

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.

For more information regarding how to apply, flip to page 58 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 56 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 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. All doctoral students will receive at least 75% of tuition for the first four years, as well as health insurance. The department is able to offer additional funding to selected doctoral- and postdoctoral-level individuals through its NIMH and NIDA training programs.

For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

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

The department championed the recently implemented inter-departmental R3 Graduate Science Initiative, which emphasizes the three “R’s” (rigor, responsibility and reproducibility) of good scientific practice. The goal is to innovate science education at the graduate level and beyond by bringing more critically-creative thinking, interdisciplinary practice, as well as social responsibility into the training for life and public health scientists.

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.

"Our department is unique in that it provides the opportunity to obtain rigorous training in the sciences of microbiology and immunology in an environment that is dedicated to improving public health."

Arturo Casadevall, MD, PhD, Department Chair

**Research Spotlight**

Dr. Diane Griffin leads one of six virology research groups in the Department of Molecular Microbiology and Immunology. In her lab, Dr. Griffin is working with RNA viruses that cause two different acute diseases (measles and encephalitis) to study the mechanisms of disease pathogenesis, recovery and development of protective immunity. Both measles and encephalitis viruses cause acute infections with disease lasting about a week, but viral RNA persists after apparent recovery. This persistence may lead to unexpected late complications of infection, but, as seen with measles, persistence of viral RNA and continued stimulation of the immune response may also contribute to development of lifelong protective immunity.

Current trainees in Dr. Griffin’s lab primarily study mosquito-transmitted alphaviruses that infect neurons and cause encephalitis. They seek to identify how viruses that cause severe disease differ from those that cause less severe disease, how neurons respond to infection and the noncytolytic processes that clear virus without harming the infected neurons. While it is known that virus strains differ in virulence and that antibodies and T-cells are important for immune-mediated clearance, the mechanisms need to be defined. If Dr. Griffin’s group is able to answer these questions, they will better understand how these viruses cause disease and how disease can be prevented or treated.

Dr. Griffin believes that her research will also inform understanding of other diseases caused by infection with RNA viruses that may also persist and cause late complications. Defining the interactions between viruses and host immune responses will help to identify what the human body needs to do for complete recovery from infection.
Researchers in our Molecular Microbiology and Immunology department are working toward eradicating some of the world’s deadliest diseases like malaria and dengue. Two of JHSPH’s faculty members from this department received Johns Hopkins University Discovery Awards to pursue cutting edge research.

George Dimopoulos, from our Malaria Research Institute, is working to assess the effects on malaria transmission of the gut flora of mosquito vectors for the disease. His laboratory has demonstrated that the specific bacteria present in the mosquito gut indeed influences the efficiency of transmission, opening up a novel approach to malaria control.

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DEGREE PROGRAMS

MHS in Molecular Microbiology and Immunology
duration: 1 year*
application deadline: April 15

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 four terms during the academic year. Required courses, focusing on immunology, virology, parasitology, bacterial pathogenesis and ector biology, 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 masters’ students 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.

ScM in Molecular Microbiology and Immunology
duration: 2 years*
application deadline: April 15

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 ector biology. 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 eight-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.

Students applying to this program should choose the PhD Biomedical Sciences in Public Health as the degree designation in SOPHAS, and then select the degree(s) to which they are interested in applying. Admissions decisions will be made separately by each degree program. In the personal statement, applicants should clearly express why they are interested in applying to the selected programs.

Learn “How to Apply” by flipping to page 58 or by visiting www.jhsph.edu/admissions

DEPARTMENTAL FUNDING

Funding sources are limited for masters’ 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 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

*The time it takes to complete a degree may vary by student and circumstances
Population, Family and Reproductive Health (PFRH) is an interdisciplinary department whose research, teaching and practice address population science, the health of women, mothers, infants, children and adolescents, and the well-being of families. The department’s efforts focus not only on the health and behavior of populations in the US, but is dedicated to improving health throughout the “life course” worldwide.

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

Teaching and research activities focus on human development and health across the life course, reproductive processes and outcomes, the biological and social determinants of health as well as 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 are trained as research scientists, public health leaders and health professionals for careers related to a broad spectrum of population, family and reproductive health concerns.

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**Degree Programs**
- Master of Health Science (MHS)
- Master of Health Science (MHS) in Demography
- Master of Science in Public Health (MSPH)
- Doctor of Philosophy (PhD)

**Student SPOTLIGHT**

Jen Chen is a second year MSPH student who came to JHSPH from UC Berkeley. She was first attracted to the Department of Population, Family and Reproductive Health because it is a center of excellence for maternal and child health. With a professional interest in breastfeeding advocacy and support, Jen knew she wanted a program that specialized in maternal and child health and gave her access to resources to help her interest in advocacy and policy work.

In class, Jen enjoys the diversity of students and their backgrounds. “There are doctors, entrepreneurs and academics, but we all have the same goal. It’s about collaboration and that’s reflected both inside and outside of class,” Jen says. With a Diversity Fellowship with the Association of University Centers on Disabilities (AUCD), Jen learned how to handle the policy side of public health platforms by working with Maryland’s Centers for Developmental Disabilities. It has also helped her to see many of the inequalities and health access disparities across different populations, further fueling her desire to work within breast-feeding advocacy in low-income populations.

When asked to describe her favorite part about JHSPH she answered, “The people. They are bright, the best minds, but even more importantly, they are good people. We all push each other.”

A child is read to during a home visit conducted by Project Self-Sufficiency, a home visiting program working with the Home Visiting Applied Research Collaborative (HARC). HARC, founded by Dr. Anne Duggan, leads a national network of several hundred local home visiting programs and researchers. Using Precision Home Visiting, they focus on discovering efficient and effective ways to work with families through the use of innovative methods to strengthen and broaden the impact of home visiting.
**DEGREE PROGRAMS**

**MHS in Demography**

duration: 1 year*
application deadline: April 15

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 opportunities by enabling graduates to market themselves as trained in demography.

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

**MHS**

duration: 1 year*
special application requirement: must have a doctoral degree
application deadline: April 15

The MHS is a one-year academic program designed for students who are interested in advancing their knowledge 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 offers a part-time option for working professionals.

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

**MSPH**

duration: 2 years*
application deadline: April 15

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, working with faculty and a four- to six-month field placement, students acquire a sound knowledge of general public health principles, methods and specific areas of public health relating to population, family and reproductive health.

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

**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 students to engage in research with department faculty, public health leadership in community based research, program evaluation and application of research to current public health programs, as well as conducting independent research. Students may enter the program with little or no professional public health work experience. The emphasis of the PhD program is to train individuals to apply a social science perspective along with a broad range of research methods to issues related to PFRH focal areas.

Graduates 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.

› Learn “How to Apply” by flipping to page 58 or by visiting www.jhsph.edu/admissions

**ADDITIONAL EDUCATIONAL OPPORTUNITIES**

**Certificates**

The department offers the following certificate programs:

› Adolescent Health
› Demographic Methods
› Maternal and Child Health
› Population and Health
› Public Health Advocacy
› Public Health Economics

› For more information regarding certificates, flip to page 56 or visit www.jhsph.edu/academics/certificate-programs

**DEPARTMENTAL FUNDING**

Funding for masters’ and doctoral students is determined on a case by case basis. All full-time, 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. Tuition support 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 opportunities for support through a limited number of research assistantships, teaching assistantships and working with faculty on various research and practice activities throughout their tenure in the program.

› For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

**The time it takes to complete a degree may vary by student and circumstances**
The DrPH is a Schoolwide program designed to prepare students to assume leadership roles in domestic and international public health policy and practice positions, as well as in health services delivery settings. The DrPH is the most advanced, professional qualification in public health.

The DrPH program emphasizes its practice orientation. The program is designed for early-mid career public health professionals, and is a part-time program, combining study in summer and winter institutes with online classes, a practicum and a dissertation. Students are anticipated to remain in relevant public health employment throughout their studies and to undertake a practicum within their regular place of employment. The program is intended to serve both domestic and international students.

"The DrPH is a flexible, part-time program that blends skills and competencies from academic disciplines across the School of Public Health. As an applied program, targeted primarily at working public health professionals seeking to secure leadership roles in domestic or international public health agencies and organizations, the DrPH is delivered primarily online, and through summer and winter institutes."

Sara Bennett, PhD
Program Director

Student SPOTLIGHT

Larry Warner, a second year DrPH student with a concentration in Health Equity and Social Justice, works full-time as a Strategic Initiative Officer at the Rhode Island Foundation, a community foundation in Providence, Rhode Island, where he leads the Healthy Lives initiative. The opportunity to develop leadership competencies, undertake community based research, and have faculty mentorship in his specific area of interest convinced Larry that the DrPH was the right program for him. “I’ve been able to immediately apply many of the competencies that are being developed in my work place and other professional capacities,” Larry said regarding his first year in the program.

For his practicum, Larry is currently collaborating with the Rhode Island Department of Health to develop a statewide health equity surveillance tool. He plans to conduct his doctoral research on the health department’s Health Equity Zone (HEZ) program. The program looks to improve health within communities facing inequities by addressing social, economic, and environmental determinants of health. Larry will evaluate the program’s effectiveness by comparing changes in health outcomes and social determinants of health in communities chosen for the HEZ program, with those of communities that were not chosen (a comparison that the program does not already research).

When asked why he is enjoying the DrPH program, Larry spoke eagerly about his fellow students. “I’m enjoying the time learning from and sharing with my peers. I’m learning from students in the different concentrations, and the diversity of student backgrounds enhances the program.” He also described the faculty as “approachable, reasonable and accommodating”, especially for students working full-time and in another state.
Discussed and agreed upon between the student, the adviser and the to meet these competencies. Each customized program will be select appropriate courses, available online or through institutes, ers to articulate the competencies which they are pursuing, and Students in a customized program will need to work with their advis- to a specific concentration within the program, or a customized program of study. The program requires successful completion of a minimum of 56 term credits of course work, plus 8 term credits for a dissertation, for a total of 64 term credits. Students will take a comprehensive written examination at the conclusion of their required course work, a preliminary oral examination before they conduct their dissertation work and a final oral examination. Students may complete the degree over a minimum of 4 years, up to a maximum of 9 years.

DRPH CONCENTRATIONS

DrPH students choose one of four concentrations or customize their program to fit their own learning objectives. Students take a minimum of 28 didactic credits within their chosen concentration or customized program of study in addition to their 28 foundational credits.

DrPH Customized Program of Study provides students the flex- ibility to tailor the program to their own personal and professional goals. Students in the customized program may, for example, choose to specialize in a particular public health field such as mental health, surveillance, nutrition or another applied area not reflected in the listed concentrations.

Students in a customized program will need to work with their advis- ers to articulate the competencies which they are pursuing, and select appropriate courses, available online or through institutes, to meet these competencies. Each customized program will be discussed and agreed upon between the student, the adviser and the DrPH Program Office.

Environmental Health, hosted within the Department of Environmental Health and Engineering, emphasizes the applica- tion of in-depth public health knowledge and scientific analysis to characterize and solve occupational and environmental problems. Candidates in this concentration develop and sharpen skills in toxicology, risk assessment, risk management and risk communication so they can analyze and assess complex environmental risks and design and implement effective intervention strategies. Environmental Health DrPH graduates transform cutting edge science into public health solutions. They are active throughout the world as leaders in federal, state and local agencies as well as private sector companies, foundations, consulting businesses and academia.

Learn more about the Environmental Health concentration at http://ehe.jhu.edu

Health Equity and Social Justice is an interdepartmental concentra- tion focused on understanding and addressing the multiple determinants of health, particularly among disadvantaged and marginalized groups in both high income, and low and middle income settings. Through the concentration students learn about innovative epidemiological, social and behavioral tools to assess population health and influences upon it, and students acquire skills relevant to the design, implementation and evaluation of health programs designed to benefit the poor and marginalized groups, including the development and management of intersectoral partnerships. This concentration is well suited to those seeking leadership positions in agencies concerned with planning and implementing projects designed to meet public health needs.


Health Policy and Management, housed within the Department of Health Policy and Management, focuses 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. To focus their studies, applicants to HPM will choose from one of three tracks to focus their studies within this concentration:

The Healthcare Management and Leadership track focuses on measuring, monitoring and improving the clinical and financial performance of health services organizations, as well as training leaders for organizational change. The curriculum is based on the Malcolm Baldrige Health Care Criteria for Performance Excellence framework and targets those who have master’s level training related to healthcare management. The track is relevant to those working domestically and internationally, and is well suited to those working in middle to senior-level positions in hospitals, other health services delivery organizations, consulting firms, university settings, as well as in U.S. Government and international organizations.

The Public Health Informatics track focuses on training in methods and concepts of health informatics for application to public health and population health management. The curriculum is designed for public health professionals or population health managers who wish to develop an area of expertise in this emerging field. The curriculum includes a variety of specialized courses in Core Informatics, Database Methods, Biosurveillance, IT Project Management, Human Factors, Privacy and Security, and other areas.

The Quality and Patient Safety track addresses issues related to quality of healthcare, patient safety, patient centered out-comes and performance measurement and improvement. Designed for

Part-Time Study duration: 4-6 years*

special application requirement: at least three years public health related experience and an MPH or equivalent master’s degree

application deadline: Dec 1

While the program is predominantly a part-time program, students may enroll full-time if their external funding sources require full-time enrollment. Potential applicants wishing to apply for a full-time program should contact the program manager.

The DrPH program is built around a set of common (foundational) competencies that focus in particular on leadership, analytical skills and communication, but also cover policy, management, ethics, program design and evaluation. Many of these core competencies are taught through an integrated sequence of problem-based learning classes that address recent public health challenges and provide stu-
public health, clinical and management professionals the outcomes research based curriculum focuses on measurement, evaluation and comparative effectiveness research using rigorous methodology to compare available options for treatment or prevention. The curriculum includes courses in quality, patient safety, patient centered outcomes, performance measurement, human factors and the evaluation of programs and interventions for improving the safety and quality of health care services. This track targets those who have master’s level training related to public health, healthcare management or clinical sciences.


Implementation Science is an interdepartmental concentration focused on developing and sharing evidence to support the formulation, implementation and scale up of new health policies and programs, through the application of interdisciplinary tools and approaches to study processes in complex health systems. Students learn how to support iterative cycles of implementation and adaptation of public health programs based on evaluation and learning, and how to synthesize and present complex information to policy-makers and practitioners. This concentration is relevant to those working domestically and internationally, and is well suited to individuals seeking to develop careers as program managers, physician managers, and those working in the knowledge translation field, or in policy advisory positions.


- Learn “How to Apply” by flipping to page 58 or by visiting www.jhsph.edu/admissions

FUNDING
The Bloomberg American Health Initiative is a major effort to make progress on five major challenges facing health in the United States: addiction and overdose, environmental challenges, obesity and the food system, risks to adolescent health, and violence. The Bloomberg Doctoral Fellows Program is designed for individuals who are currently working with U.S. organizations on the front lines of one of these five challenges. A separate application process is required for consideration.

- For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Centre Valbio traveling health clinic staff provide examinations and medications to local residents in Antaralava village, Madagascar.
Online Programs for Applied Learning

Fully Online Programs

The Johns Hopkins Bloomberg School of Public Health offers fully online, part-time masters’ degrees and certificate programs, designed for working professionals. Our Online Programs for Applied Learning (OPAL) focus on emergent industry sectors that have a resounding need for highly skilled professionals. These innovative, interdisciplinary programs build on the strengths of the School, providing unmatched opportunities for advanced training, focusing on both local and global issues, to prepare students to address public health problems through multidisciplinary approaches that apply the latest scientific knowledge.

In addition to required courses, requirements vary by program; elements may include professional development workshops, public health seminars, and/or elective courses. All Master of Applied Science (MAS) programs will culminate in a final integrative activity. The goal of this activity is for students to synthesize knowledge and skills obtained through coursework in a final project that demonstrates their mastery of the program competencies, as applied to real-world public health questions.

The OPAL certificate programs, also focused on public health skills-building, are shorter in duration and may be completed in as little as one year. The certificate program may be a good fit for students who already hold advanced degrees and are looking to broaden or update their skills.

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Program Areas
› Community-based Primary Health Care Programs in Global Health
› Global Health Planning and Management
› Humanitarian Health
› Patient Safety and Healthcare Quality
› Population Health Management
› Spatial Analysis for Public Health
www.jhsph.edu/applied-learning

Student SPOTLIGHT

David Wade, a Fire Captain, Master Instructor and EMT, became interested in public health about fifteen years ago. The fire service spends a great deal of time performing prevention work and he feels a strong need for more. The MAS program in Spatial Analysis in Public Health is giving him tools to find new preventative ways of approaching problems.

“I’m learning a huge amount, but the breadth of seminars are introducing a lot of concepts that I hadn’t thought of before. It’s making me think about things in a different way... I’m always questioning why we are doing what we are doing, is there a better way and where is the evidence.”

In addition to wishing his coworkers had the tools he’s learning, David is quick to praise the instructors. He enjoys the LiveTalk sessions, and appreciates that they are recorded for those who cannot attend in real time. “My epidemiology instructor is the most amazing instructor I’ve had in my entire university and college experience.”

As a Master Instructor in California, David is one of a few people who can teach level three classes and as a result does a great deal of teaching to train first responders. His hope is to take what he is learning and use it to inspire people to go about their work differently, just as he is beginning to do so in his own career in the fire service.

“The Online Programs for Applied Learning are designed for working professionals who seek to enhance their skills to address public health problems with a very practical, hands-on approach. Our fully online, part-time format allows participants the flexibility to achieve their goals, while they are shaping the future of public health at both local and global levels.”

Elizabeth T. Golub, PhD, MEd, MPH, Program Director

David Wade
MAS in Spatial Analysis Candidate
MingHsuan says that public health is everything and everywhere. In the Spatial Analysis in Public Health program. New to public health, MingHsuan was originally working in finance. Mapping for his job in finance originally led MingHsuan to the MAS in Spatial Analysis in Public Health program. New to public health, MingHsuan says that public health is everything and everywhere.

DEGREE PROGRAMS

MAS in Community-based Primary Health Care Programs in Global Health

duration: 2 years*
application deadline: July 1

The goal of the Master of Applied Science in Community-based Primary Health Care Programs in Global Health is to prepare students from diverse backgrounds to fill front-line roles in public, private and NGO sectors that serve developing countries around the world. Applicants with community-based health and social program experience are ideal for this program.

Upon completion of the program, students will have the skills to lead community-based approaches and address a broad range of ethical, cultural, political and socio-economic factors related to health for populations in underserved and impoverished communities throughout the world. The program provides learners with skills to design, manage, and implement household surveys to aid in planning community programs, analyze project implementation and evaluation designs, and prepare training plans for community health workers, all necessary to plan community-based primary health care programs in low and middle income countries (LMICs) and other underserved areas.

The MAS program in Community-based Primary Health Care Programs in Global Health will equip students with the necessary knowledge to design, implement and evaluate large-scale community-based primary health care programs.

MAS in Global Health Planning and Management

duration: 2 years*
application deadline: July 1

The goal of the Master of Applied Science in Global Health Planning and Management is to prepare students from diverse backgrounds for critical leadership roles within global health advocacy and practice. Students working in management of governmental and nongovernmental public health programs are ideal candidates for this degree.

Upon completion of the program, students will have the skills to design and implement public health programs and manage the delivery of services in underserved and impoverished communities. The program will provide learners with skills to conduct strategic analysis of public health problems facing underserved populations domestically and internationally. Students will apply capacity building processes, ethical reasoning and social, cultural and political awareness when planning health programs. The courses in this degree program teach skills in systems thinking, design and evaluation, program administration within NGOs and pharmaceutical policy and management.

The MAS program in Global Health Planning and Management will equip students with the necessary tools and strategies to plan, implement, and evaluate public health programs in low and middle income countries (LMICs) and other underserved areas.

MAS in Humanitarian Health

duration: 2 years*
application deadline: July 1

The goal of the Master of Applied Science in Humanitarian Health is to prepare students from diverse individual and professional backgrounds for positions that address the significant public health, epidemiologic and health service provision challenges experienced in humanitarian settings.

Upon completion of the program, students will have the skills to support and lead humanitarian organizations in service delivery, applied research and public health advocacy. The program will provide learners with training in epidemiology and biostatistics and other content areas that reflect the breadth of public health; practical skills derived from workshops in professional development; and content specific to humanitarian settings such as assessment methods and sector-based courses in nutrition and food security and water and sanitation.

The MAS program in Humanitarian Health will equip students with the necessary tools to anticipate and directly satisfy the increasing demand for leadership and expertise in the field of humanitarian health.

MAS in Patient Safety and Healthcare Quality

duration: 2 years*
application deadline: July 1

The goal of the Master of Applied Science program in Patient Safety and Healthcare Quality is to educate students in the transformative mechanisms and evidence-based protocols that reduce preventable patient harm and improve clinical outcomes.

Upon completion of the program, students will have the skills to describe frameworks and theories for assessing and improving the quality of care, articulate a workable quality improvement and evaluation plan and design solutions to improve patient safety. The program will provide learners with training in epidemiology and biostatistics, courses that reflect the breadth of public health, practical skills derived from workshops in professional development and skills.

*The time it takes to complete a degree may vary by student and circumstances
in patient safety and health care quality through the comprehensive science of safety paradigm of quality.

The MAS program in Patient Safety and Healthcare Quality will equip students with the necessary tools to be leaders in quality improvement and to reduce preventable patient harm.

**MAS in Population Health Management**
*Duration: 2 years*  
*Application deadline: July 1*

The goal of the Master of Applied Science program in Population Health Management is to educate students in how to develop, assess and lead population health management systems.

Upon completion of the program, students will have the skills to identify determinants of population health that impact health outcomes in a community and implement, evidence-based, low cost interventions. This interdisciplinary program provides students the opportunity to learn from experts and develop advanced skills in population health leadership and management, informatics, quality assessment, social and behavioral techniques to engage communities and diverse stakeholders in the organization and delivery of community-based systems of care, and articulate and apply frameworks for collecting, analyzing, and using data to inform decisions, facilitate care coordination, and improve health outcomes of targeted populations.

The MAS program in Population Health Management will equip students with the necessary tools to transform their hospital and health systems into value-based, population-focused care delivery organizations.

**MAS in Spatial Analysis for Public Health**
*Duration: 2 years*  
*Application deadline: July 1*

The goal of the Master of Applied Science in Spatial Analysis for Public Health is to prepare students from diverse individual and professional backgrounds for positions that utilize spatial data to address public health problems.

Upon completion of the program, students will have the skills to understand, map, analyze and interpret spatial data as they relate to public health. The program will provide learners with skills oriented training in spatial analysis taught through a comprehensive spatial science paradigm to include courses in spatial data, geographic information systems and spatial statistics. The program is further complemented with training in epidemiology and biostatistics, courses that reflect the breadth and depth of public health and practical skills derived from workshops in professional development.

The MAS program in Spatial Analysis for Public Health will equip students with the necessary tools to anticipate and directly engage in the rapidly increasing role of spatial analysis in public health discovery and practice.

> **Learn “How to Apply” by flipping to page 58 or by visiting**  
> [www.jhsph.edu/admissions](http://www.jhsph.edu/admissions)

### ADDITIONAL EDUCATIONAL OPPORTUNITIES

**Certificates**
The program offers the following certificate:
> Global Health Practice
> Global Tobacco Control
> Population Health Management
> Spatial Analysis for Public Health

> **For more information regarding certificates, flip to page 56 or visit**  
> [www.jhsph.edu/academics/certificate-programs](http://www.jhsph.edu/academics/certificate-programs)

### FUNDING
The OPAL certificate and MAS programs have competitive price points and substantial tuition scholarships are available for students starting the program in fall 2019. Your admission application also serves as your scholarship application; therefore, no additional forms are required.

> **For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit**  
The Master of Arts in Public Health Biology (MAPHB) is a fully online, part-time degree program offered by the Bloomberg School of Public Health. It is designed to foster knowledge of, and appreciation for, modern biological principles and research methods applicable to the identification, treatment and prevention of conditions of relevance to the health of the public.

This innovative, interdisciplinary program focuses on biological tenets and research methods that are relevant to current issues in public health. The MAPHB degree integrates major strengths of the School, providing unmatched opportunities for advanced training to prepare students to observe, understand and address public health problems from a multidisciplinary perspective.

This unique master’s program will provide students with a solid understanding of the rationale, tools and approaches that are essential for addressing problems in public health. Alumni of the program will possess expertise and credentials suitable for positions in teaching, academic institutions, industry or government research organizations. The program will also provide a comprehensive foundation for entry into medical school, dental school or advanced graduate studies.

**The time it takes to complete a degree may vary by student and circumstances**
Established in 1995, the Johns Hopkins Berman Institute of Bioethics is a leader in its field. Today, the Berman Institute consists of over 40 faculty from the School of Advanced International Studies, 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 conflicts of interest, HIV/AIDS, justice theory, human gene-editing (CRISPR), allocation of scarce medical resources, moral distress and moral resilience, genetics and infectious disease, short-term global health training experiences, medical foster care, opioids, refugee and immigrant health, real world trials, access to innovative therapies and unapproved interventions, grateful patients, food and food labeling 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 NASEM (National Academies of Sciences, Engineering and Medicine), 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.

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Degree Programs
› Master of Bioethics
  - Clinical Ethics
  - Ethics, Policy and Emerging Biotechnologies
  - Global Bioethics
  - Public Health Ethics
  - Research Ethics
› Doctor of Philosophy (PhD)
  - Bioethics and Health Policy
  - See page 27 for more information

www.bioethicsinstitute.org/MBE

Alumni Spotlight
Whether it’s asking residents how they perceive the police or inquiring about people’s gun-carrying habits, Cameron Okeke says he constantly uses skills gained at the Berman Institute to make a difference.

Okeke, who earned an MBE degree in 2017 through the Berman Institute, in partnership with the Johns Hopkins Bloomberg School of Public Health, is a research associate with the Justice Policy Center of the Urban Institute, a Washington, D.C.-based research firm. His work focuses on policing, community healing, and gun violence prevention with an emphasis on public health and social justice approaches to criminal justice issues. Okeke provides support for Community Voices, a project that partners with residents and law enforcement to generate a reliable survey of local perceptions of the police.

“Hopkins gave me the analytical skills to think about issues quickly and succinctly and write about them in ways that are compelling but also follow logical axia,” Okeke says. “I really enjoy the work that I do because we generate information about important issues often muddled and mired with reactionary feelings.”

While in the MBE program, Okeke received The Marcia G. Pines Award in Bioethics and Public Health for his paper, “An Ethical Response to Female Genital Cutting in Maryland.”
Master of Bioethics (MBE)

duration: 1.5 years*
application deadline: April 15

The Master of Bioethics degree is a 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 wellbeing 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 program 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.

The MBE may be completed on a part-time basis.

Completed applications for the MBE program received prior to April 15 will be considered priority. The program will continue to accept and review complete applications on a rolling basis until July 1.

Learn “How to Apply” by flipping to page 58 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 resources webpage at www.jhsph.edu/admissions/funding-resources

For more information regarding funding, tuition costs and financial aid, flip to page 62 or visit www.jhsph.edu/offices-and-services/student-affairs/financial-aid

Deering Hall, pictured above at twilight, is the home to the Johns Hopkins Berman Institute of Bioethics.

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

“Our MPH program provides unparalleled opportunities and training in the science and practice of public health based on a multi-disciplinary population-based approach to solving critical problems. Students may study in full-time and flexible part-time online formats using a network of faculty, alumni and students working around the globe.”

Marie Diener-West, PhD
Program Chair

Alumni Spotlight
If Sommer Scholar and MPH student Hector Carrasco is asked why he chose to come to the Bloomberg School of Public Health, he doesn’t hesitate: Dr. Henry Perry. He wanted to work with one of the world’s experts in primary health care and advancing health systems. As a doctor himself, Carrasco co-founded Acompañantes, a program in Mexico that focuses on accompaniment philosophy and brings solidarity, social justice and compassion to medical care, while working for Partners in Health.

Carrasco is also quick to add that JHSPH’s networking opportunities are what make the program special. The “best people conglomerase here and come with the same dreams...pushing public health in the direction of social justice and how to solve the world’s problems.” And while Carrasco takes advantage of having access to the head of the FDA and world leading experts, his respect for his fellow classmates is evident. “I shared the classroom with really smart people from Ghana, from Thailand, from all over the world, and what unified us was the same struggle. A struggle for people to serve...How to give the best health care to the poor people and everyone, it’s all about equity.”

He describes talking with his classmates as special and inspiring.

With many public health problems created by human and societal activities, he wants to delve farther into the link between the social sciences of politics, economics and behavior sciences with the biological science of the body and organs.

Students take many paths post-graduation. Some go on to work for government agencies, some choose academia, and many, like Stacy Aldinger (Second from left in the back row, MPH/MBA '10), work for non-governmental organizations. Stacy is currently the Chief of Staff at CARE.org, an international humanitarian agency which works to save lives, defeat poverty and achieve social justice, according to its mission.

After finishing her time at JHSPH and working in the private sector, she found her current role at CARE. “I tell people I manifested this role because it brings my passion for women and girls and international development, and my business skill set together,” she says. The unique MPH/MBA combination degree paved the way for her to get the hands-on practical experience she had as a private sector consultant.
Full-Time Study

duration: 11 months*
special application requirement:
health-related experience and college-level coursework—see page 50
application deadline: Dec 1

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 4 years*
special application requirement:
health-related experience and college-level coursework—see page 50
application deadlines
› Jul 1 (for Nov start in Barcelona, Spain)
› Jul 1 (for Jan start in Baltimore)
› Dec 1 (for June start in Baltimore)

Online/Part-time students complete the degree 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 and areas:
› 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.

Electives depend upon the chosen concentration or customized program developed with the help of an adviser.

› Review the MPH curriculum in detail at www.jhsph.edu/academics/degree-programs/master-of-public-health/curriculum

MPH Concentrations

Full-time MPH students choose a concentration area 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.

› For more information on concentrations continue reading or visit http://www.jhsph.edu/academics/degree-programs/master-of-public-health/program-overview/full-time.html

MPH Customized Program of Study allows students the flexibility to tailor programs to their own personal and professional goals. The customized program of study is designed for students who seek a broad perspective on the science and practice of population-based approaches to health and disease. 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.

Aging and Public Health is for students seeking training in quantitative research methods who wish to pursue a multi-systems approach to the study of aging from the perspectives of the aging individual (brain systems, body and mind), the environments in which they age (home, work, neighborhoods and health care), and interventions that target these systems to delay and treat the progression of chronic diseases.

Child and Adolescent Health 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 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.

Food, Nutrition and Health 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.

Food Systems and Public Health provides students with the knowledge and understanding of the relevance of the food system to public health and apply communication and/or public health policy analysis and advocacy skills to study and address the public health implications of food systems.

Global Environmental Sustainability & Health 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

**The time it takes to complete a degree may vary by student and circumstances**
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** focuses on health of populations in crisis, internationally and domestically. These include refugees, internally displaced persons, 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.

**Health Leadership and Management** 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** 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** 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.

**Social and Behavioral Sciences in Public Health** provides 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** 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.

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### MPH Admissions Requirements

Health-related experience* beyond the baccalaureate level. This requirement may be fulfilled by one of the following:

- 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 U.S. medical school curriculum

Successful completion of at least one college-level course in the following:

- Mathematics (e.g., calculus, algebra, statistics)
- Introductory 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.

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

> For more information on MPH degree application requirements, the SOPHAS application and/or where to submit supporting materials, flip to page 58 or visit [www.jhsph.edu/admissions/how-to-apply](http://www.jhsph.edu/admissions/how-to-apply)
Combined Degree Programs

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.

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

For more information regarding application requirements, flip to “How to Apply” on page 58 or visit www.jhsph.edu/admissions

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 Dr. Maria Bulzaccelli, the Director of the Undergraduate Program in Public Health Studies: 410-516-8340, mbulzac1@jhu.edu

Doctoral/MHS in Biostatistics
The Department of Biostatistics provides students who are candidates for a doctoral-level degree at Johns Hopkins 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 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.

Note: The PhD program is the primary program of study.

For information about MHS programs in Biostatistics, contact Mary Joy Argo at 410-614-4454 or margo1@jhu.edu

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, socioeconomic 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. The start date of the SAIS portion may depend on the program selected.

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.

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, call 202-663-5700 or visit www.sais-jhu.edu/content/admissions#welcome

MD/PhD
The Bloomberg School, in conjunction with the Johns Hopkins School of Medicine, offers the combined 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 applying to the Hopkins MD/PhD Program who indicate an interest in pursuing a public health PhD, will have their application reviewed by JHSPH faculty members.

For more information, visit the program’s website at http://mdphd.johnshopkins.edu/, or contact the MD/PhD Program Administrator, Ms. Sharon Welling (swelling@jhmi.edu or 410-955-8008)
MPH COMBINATIONS

DVM/MPH
Veterinary students desiring a Master of Public Health (MPH) may enroll in the MPH program after graduation or after at least two years of veterinary school. Veterinary students must apply to the program and request a leave of absence from veterinary school. The years of veterinary training will fulfill the two years of health experience required for admission to the School’s MPH program.

Students in the DVM/MPH program will earn a DVM from their veterinary school and an MPH from Johns Hopkins. In particular, JHSPH has partnered with the Ross University School of Veterinary Medicine (RUSVM) to offer combined degrees where JHSPH MPH graduates enter RUSVM to study veterinary medicine and that RUSVM DVM graduates enter the JHSPH MPH program.

- For information on the DVM/MPH program, contact Dr. Meghan Davis at mdavis65@jhu.edu
- For information on the RUSVM program, visit https://veterinary.rossu.edu/admissions/dvm-admissions/articulation-agreements/johns-hopkins.html

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 separately apply and be accepted into the full-time program at an accredited U.S. or Canadian law school for the Juris Doctor degree, indicating 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 before beginning the 11 month MPH program that begins in July. Then they will return to law school for their final year(s) of the JD program. To be eligible for the JD/MPH program, the applicant must obtain written approval from the student’s law school to take a one year leave of absence to attend Johns Hopkins.

JD/MPH applicants apply through SOPHAS. The MPH admission prerequisite of previous health-professional training or two years of health-related experience is waived. All other prerequisites, including the biological coursework must be met.

- For more information on the MPH/JD, contact Professor Jon Vernick at 410-955-7982 or jvernick1@jhu.edu
- 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

LLM/MPH
The Bloomberg School offers combined degree programs in global health law and public health that prepare students seeking to understand public health practice and the role of law in solving critical global health challenges.

Eligible candidates must have already earned a JD degree or equivalent. Candidates must apply and be accepted into the full-time MPH program at the Bloomberg School and also separately apply and be accepted into the LLM program at Georgetown University Law Center’s O’Neill Institute for National and Global Health Law. Students in the LLM/MPH program will earn an LLM degree in Global Health Law degree from Georgetown and a Master of Public Health (MPH) degree from Johns Hopkins. 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.

- For further information on the program, contact Professor Jon Vernick at 410-955-7982 or jvernick1@jhu.edu
- For further information on the LLM program with Georgetown Law program, visit www.law.georgetown.edu/academics/academic-programs/jd-program/joint-degree-programs/index.cfm

MBA/MPH with the China Europe International Business School
The Bloomberg School and the China Europe International Business School (CEIBS) offer the Master of Business Administration and Master of Public Health (MBA/MPH) dual degree program.

Students pursue complementary studies in public health and international business. They observe first-hand the opportunities and challenges in China’s giant health care market, which is vital for future leaders in global health.

Graduates earn the MBA degree from CEIBS and the MPH degree from the Bloomberg School.

- For more information, contact the MPH Program Office at 410-955-1291 or mphprog@jhu.edu and the CEIBS MBA Admission Office at admissions@ceibs.edu

MD/MPH
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 MD/MPH 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

52 Johns Hopkins Bloomberg School of Public Health
**MPH/MBA with the Carey Business School**

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 uniquely integrated 23-month full-time program leverages the philosophies, functions and competencies of public health and business enterprise to prepare graduates for leadership careers in evolving health systems and private industry. Students acquire competencies in topics including the principles of population-based health, financial management and strategic planning. Graduates will be able to assess the public health needs of consumers or communities and lead the design, implementation, and evaluation of products, policies, programs, and strategies to address these needs.

Applications for the MPH/MBA are processed through SOPHAS. MPH/MBA applicants are required to submit the GMAT or GRE. All other 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 early July) completing the requirements for the MPH program, and then return 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.

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

► **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**

**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) joint 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 enhance 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 interests. Please note that the MSN/MPH degree is awarded as a joint degree 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 standard MPH admission prerequisite of previous health-professional training or two years of health-related experience is waived.

For best consideration, please submit your application by November 1, the priority application deadline date at the School of Nursing.

If you have questions about the deadline date or nursing program, please contact Betsy Emery at 410-955-7548.

► **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**

**COMBINED DEGREE PROGRAMS OFFERED WITHIN THE BLOOMBERG SCHOOL**

**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.

**Note:** The PhD program is the primary program of study.

► **For information about International Health MSPH programs, see page 30 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-approved clinical training (PGY-1) prior to commencing residency training

**application deadline:** Oct 15

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.

**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, which fulfills the clinical requirement and provides valuable population health learning experience in the clinical setting.

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 four 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.

In addition to the traditional two-year residency training program, the GPMR has an opportunity for graduating medical students to apply to the Combined Family Medicine-Preventive Medicine Program with MedStar Franklin Square Hospital or to the transitional internship track at Mary Imogene Bassett Hospital in Cooperstown, N.Y. Each of these programs are limited to one resident each year.
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.

**Occupational and Environmental Medicine Residency Program**
*duration: 2 years*

**special application requirement:**
must have completed at least one year of ACGME-approved clinical training (PGY-1) to commencing residency training

**application deadline: Oct 15**

The overall objective of the Occupational & 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.

**ADMISSIONS REQUIREMENTS**
To apply to a residency training program, submit a complete application to SOPHAS. The application will be reviewed by the Admissions Committees of the respective residency program and the Bloomberg School Master of Public Health (MPH) program.

Applicants who wish to apply to the GPMR Combined Family Medicine-Preventive Medicine Program with MedStar Franklin Square Hospital in Baltimore, MD, or to the GPMR transitional internship track at Mary Imogene Bassett Hospital in Cooperstown, N.Y., should first apply to the respective program through the National Resident Matching Program. Applicants invited to interview for these programs will be required to simultaneously complete the SOPHAS application for consideration to the GPMR and Bloomberg School’s Master of Public Health (MPH) program to begin the year following the PGY-1 clinical internship.

› Learn “How to Apply” by flipping to page 58 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 or COMLEX scores
› Medical school dean’s letter (if applicable, required only for applicants who have not completed a full residency)
› 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 USLME or COMLEX scores. If you choose to use the ERAS system, you MUST also submit an application to SOPHAS.

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

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/or non-degree students. A growing number of certificates may be completed entirely online.

Our website has the most up to date information about start terms, eligibility, admissions and course requirements. After visiting the website you should contact the appropriate certificate administrator with any questions.

> For more information about our certificates, visit [www.jhsphs.edu/academics/certificate-programs](http://www.jhsphs.edu/academics/certificate-programs)

### APPLICATION DEADLINES FOR CERTIFICATES

<table>
<thead>
<tr>
<th>Start Term</th>
<th>App Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Institute</td>
<td>April 1</td>
</tr>
<tr>
<td>Summer</td>
<td>May 1</td>
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<tr>
<td>First</td>
<td>July 1</td>
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<td>Second</td>
<td>September 15</td>
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<tr>
<td>Winter Institute</td>
<td>November 1</td>
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<tr>
<td>Third</td>
<td>December 1</td>
</tr>
<tr>
<td>Fourth</td>
<td>February 1</td>
</tr>
</tbody>
</table>

### Certificate Programs

- Adolescent Health*
- Bioethics and Public Health Policy
- Clinical Trials*
- Community-Based Public Health
- Demographic Methods
- Environmental and Occupational Health*
- Epidemiology for Public Health Professionals
- Evaluation: International Health Programs
- Food Systems, the Environment and Public Health
- Gerontology
- Global Health*
- Global Health Practice†
- Global Tobacco Control†
- Health and Human Rights
- Health Communication
- Health Disparities and Health Inequality
- Health Education
- Health Finance and Management*
- Healthcare Epidemiology and Infection Prevention and Control
- Humane Sciences and Toxicology
- Humanitarian Health
- International Healthcare Management and Leadership
- Injury and Violence Prevention
- Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Public Health
- Maternal and Child Health
- Mental Health Policy, Economics and Services
- Pharmacoepidemiology and Drug Safety*
- Population and Health
- Population Health Management†
- Public Health Advocacy
- Public Health Economics
- Public Health Informatics*
- Public Health Practice
- Public Health Preparedness
- Public Health Training Certificate for American Indian Health Professionals
- Public Mental Health Research
- Quality, Patient Safety and Outcomes Research*
- Quantitative Methods in Public Health
- Risk Sciences and Public Policy
- Spatial Analysis for Public Policy†
- Training Certificate in Public Health*
- Tropical Medicine
- Vaccine Science and Policy

* Certificate may be completed online

† Certificate is part of the Online Programs for Applied Learning
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.

Summer Institute courses are held in Baltimore. The two-week Winter Institute is held in January with courses available in Baltimore and Washington, DC. 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.

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

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 is 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

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

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 56 or visit www.jhsph.edu/academics/certificate-programs

For more information regarding online degree options, see pages 9, 15, 40, 42, 45 and 49 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
ARE YOU READY TO APPLY?
Please take your time, review our application tips and make sure you’re choosing the correct program. Selection of the wrong program could potentially slow or stop the processing of your application.

APPLICATION DEADLINES
The Bloomberg School has many different application deadlines. Be sure to carefully review the application deadlines page, locate your program and its respective deadline, and review your program’s website.

All application materials must arrive by the application deadline.

To find the application deadline for your program, flip to page 60

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

› online application
  - All degree seeking applicants and residency applicants through SOPHAS
  - All certificate and BA/Masters’ students through SOPHAS Express
› 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 see page 59)
› 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)

The time it takes for materials such as transcripts and test scores to arrive may be longer than you think. In addition, SOPHAS can take up to six weeks to verify your application.

Apply early!

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

To learn more about this requirement, see www.jhsph.edu/admissions/how-to-apply

International Academic Records
If you’re an international student or a U.S. student who has studied internationally for more than a year, your international academic records must be evaluated by World Education Services, Inc (WES). A WES iCAP Course by Course evaluation is required.

For additional guidance, visit www.jhsph.edu/admissions/international-applicants

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. Review the chart on the next page to ensure you take the correct exam for your degree program. Results of these exams can be used as an indicator for scholarship consideration.

Plan to take your exam far in advance of the application deadline. Despite the 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/how-to-apply/standardized-test-scores.html

Questions for admissions?
Visit our website: www.jhsph.edu/admissions
See our FAQ: www.jhsph.edu/admissions/how-to-apply/faqs
Subscribe to our blog: www.jhsph.edu/admissions/admissions-blog
Or contact us!
  › 410-955-3543 (Monday–Friday)
  › jhsp.admiss@jhu.edu

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Visit our website: www.jhsph.edu/admissions
See our FAQ: www.jhsph.edu/admissions/how-to-apply/faqs
Subscribe to our blog: www.jhsph.edu/admissions/admissions-blog
Or contact us!
  › 410-955-3543 (Monday–Friday)
  › jhsp.admiss@jhu.edu
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 whose citizenship is from a country where English is not the official language.

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

MULTIPLE APPLICATIONS
The Bloomberg School recommends that you take your time researching our offerings and focus on the program that best suits your goals and interests. You may, however, apply to more than one program and/or concentration. If you apply to more than one, it is strongly encouraged you apply to no more than three programs.

Please be aware you will be required to pay separate application fees for each program to which you apply. You will also want to submit separate personal statements explaining your interest in that specific program.
2019-2020 Application Deadlines

Doctoral Programs

All Doctoral Programs† have a December 1 deadline, except for the PhD in Clinical Investigation which has a March 1 deadline.

Masters’ Programs

*Programs have final deadlines that extend beyond the dates listed below. Please refer to the program website for the final deadline.

<table>
<thead>
<tr>
<th>Department</th>
<th>Dec 1</th>
<th>Jan 15</th>
<th>Mar 1</th>
<th>Apr 15</th>
<th>Jul 1</th>
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</thead>
<tbody>
<tr>
<td>Berman Institute of Bioethics MBE‡</td>
<td>X</td>
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<tr>
<td>Biochemistry and Molecular Biology*</td>
<td>X</td>
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<tr>
<td>Biostatistics*</td>
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<tr>
<td>Environmental Health and Engineering Full-time*</td>
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<tr>
<td>Environmental Health and Engineering Online/Part-time MSPH‡</td>
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<tr>
<td>Epidemiology*</td>
<td>X</td>
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<tr>
<td>Graduate Training Program in Clinical Investigation (GTPCI)</td>
<td>X</td>
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<tr>
<td>Health, Behavior and Society MHS*, MSPH‡ and ScM</td>
<td>X</td>
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<tr>
<td>Health Policy and Management*</td>
<td>X</td>
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<tr>
<td>International Health MSPH/RD</td>
<td>X</td>
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<tr>
<td>International Health MSPH* and MHS*</td>
<td>X</td>
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<tr>
<td>Mental Health*</td>
<td>X</td>
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<tr>
<td>Molecular Microbiology and Immunology MHS* and ScM</td>
<td>X</td>
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<tr>
<td>Population, Family and Reproductive Health</td>
<td>X</td>
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</tbody>
</table>

Interdepartmental Programs

MAS Degrees*                                          | X     |        |       |        |       |

MA in Public Health Biology*                           | X     |        |       |        |       |

Schoolwide Programs

MPH Programs*

- Full-time (late June/early July Start) X
- Online/Part-time (June Start) X
- Online/Part-time (Jan Start) X
- Online/Part-time (Nov, Barcelona Start) X

Residency Applicants

Residency applicants should submit their application no later than October 15.

Combined Bachelors/Masters’ Applicants

All Johns Hopkins University public health studies students interested in the BA/MHS or BA/MSPH programs should apply during the summer between their junior and senior year. The application deadline is July 1.

†Biomedical Sciences in Public Health

Students applying to the:

- PhD in Biochemistry and Molecular Biology
- PhD in Molecular Microbiology and Immunology
- PhD in Environmental Health Sciences in the Toxicology, Physiology and Molecular Mechanisms track should choose the PhD Biomedical Sciences in Public Health as the degree designation in SOPHAS. You can then select the degree(s) to which you are interested in applying. Admissions decisions will be made separately by each degree program. In your personal statement, please clearly express why you are interested in applying to your selected program(s).

‡January Start for Departmental Masters’ Programs

The following programs offer a part-time format with a January start date:

- Berman Institute of Bioethics MBE
- Environmental Health Online/Part-time MSPH
- Health, Behavior and Society MSPH

The deadline for these programs is October 15 for the January start date.
# 2019–2020 Academic Calendar

<table>
<thead>
<tr>
<th><strong>Summer Institutes</strong></th>
<th>begin T May 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for Summer Institute Term</td>
<td>T Feb 12</td>
</tr>
<tr>
<td>Registration Ends for Summer Institute Terms</td>
<td>F June 1</td>
</tr>
<tr>
<td>New MPH Student Orientation/Registration</td>
<td>M July 1</td>
</tr>
<tr>
<td>Add/Drop Period for Summer Term (for full-term courses only)</td>
<td>M July 1-F July 12</td>
</tr>
<tr>
<td>Last Class Day of Summer Term</td>
<td>F Aug 23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Summer Term</strong> (39 class days)</th>
<th>M July 1-F Aug 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for Summer Term</td>
<td>W Apr 3</td>
</tr>
<tr>
<td>Registration Ends for Summer Term</td>
<td>F June 2</td>
</tr>
<tr>
<td>New MPH Student Orientation/Registration</td>
<td>Th June 27-F June 28</td>
</tr>
<tr>
<td>Instruction Begins for Summer Term</td>
<td>M Jul 1</td>
</tr>
<tr>
<td>Independence Day Holiday Recess</td>
<td>Th Jul 4</td>
</tr>
<tr>
<td>Add/Drop Period for Summer Term (for full-term courses only)</td>
<td>M July 1-F July 12</td>
</tr>
<tr>
<td>Last Class Day of Summer Term</td>
<td>F Aug 23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>1st Term</strong> (39 class days)</th>
<th>T Sep 3-F Oct 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for 1st Term for Continuing &amp; Special Students</td>
<td>M June 3</td>
</tr>
<tr>
<td>1st Term Registration Ends for Continuing &amp; Special Students</td>
<td>F Aug 16</td>
</tr>
<tr>
<td>New Student Orientation/Registration</td>
<td>T Aug 27-Th Aug 29</td>
</tr>
<tr>
<td>Labor Day Recess</td>
<td>M Sep 2</td>
</tr>
<tr>
<td>Instruction Begins For 1st Term</td>
<td>T Sep 3</td>
</tr>
<tr>
<td>Add/Drop Period</td>
<td>M Sep 2-F Sep 13</td>
</tr>
<tr>
<td>Last Class Day of 1st Term</td>
<td>F Oct 25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>2nd Term</strong> (38 class days)</th>
<th>M Oct 28-F Dec 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for 2nd Term</td>
<td>F Jul 19</td>
</tr>
<tr>
<td>2nd Term Registration Ends</td>
<td>F Oct 18</td>
</tr>
<tr>
<td>Instruction Begins For 2nd Term</td>
<td>M Oct 28</td>
</tr>
<tr>
<td>Add/Drop Period</td>
<td>M Oct 28-Su Nov 10</td>
</tr>
<tr>
<td>Thanksgiving Recess</td>
<td>Th Nov 28-Su Dec 1</td>
</tr>
<tr>
<td>Last Class Day of 2nd Term</td>
<td>F Dec 20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Winter Intersession</strong></th>
<th>M Jan 6-F Jan 17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for Winter Intersession</td>
<td>Th Oct 3</td>
</tr>
<tr>
<td>Winter Intersession Registration Ends</td>
<td>F Dec 27</td>
</tr>
<tr>
<td>Add/Drop Period for Winter Intersession</td>
<td>Varies Per Course</td>
</tr>
<tr>
<td>Online/Part-Time MPH New Student Orientation</td>
<td>Su Jan 5</td>
</tr>
<tr>
<td>Martin Luther King, Jr. Holiday Recess</td>
<td>M Jan 20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>3rd Term</strong> (39 class days)</th>
<th>T Jan 21-F Mar 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for 3rd Term</td>
<td>W Nov 13</td>
</tr>
<tr>
<td>3rd Term Registration Ends</td>
<td>F Jan 10</td>
</tr>
<tr>
<td>Instruction Begins for 3rd Term</td>
<td>T Jan 21</td>
</tr>
<tr>
<td>Add/Drop Period</td>
<td>M Jan 20-F Jan 31</td>
</tr>
<tr>
<td>Last Class Day of 3rd Term</td>
<td>F Mar 13</td>
</tr>
<tr>
<td>Spring Recess</td>
<td>M Mar 16-F Mar 20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>4th Term</strong> (40 class days)</th>
<th>M Mar 23-F May 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Begins for 4th Term</td>
<td>W Feb 5</td>
</tr>
<tr>
<td>4th Term Registration Ends</td>
<td>F Mar 13</td>
</tr>
<tr>
<td>Instruction Begins for 4th Term</td>
<td>M Mar 23</td>
</tr>
<tr>
<td>Add/Drop Period</td>
<td>M Mar 23-F Apr 3</td>
</tr>
<tr>
<td>Last Class Day of 4th Term</td>
<td>F May 15</td>
</tr>
<tr>
<td>Public Health Convocation</td>
<td>T May 19</td>
</tr>
<tr>
<td>University Commencement</td>
<td>Th May 21</td>
</tr>
<tr>
<td>Residency Program Ends</td>
<td>T June 30</td>
</tr>
</tbody>
</table>
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.

BLOOMBERG FELLOWS PROGRAM

The Bloomberg American Health Initiative is a major effort to make progress on five major challenges facing health in the United States: addiction and overdose, environmental challenges, obesity and the food system, risks to adolescent health and violence. The Bloomberg Fellows Program is designed for individuals who are currently working with U.S. organizations on the front lines of one of these five challenges. A separate application process is required for consideration.

BROWN SCHOLARS

The C. Sylvia and Eddie C. Brown Community Health Scholarship is designed to train African American leaders committed to eliminating health inequalities in Baltimore and other cities. 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.

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.

MASTER’S TUITION SCHOLARSHIP

Some departments offer a Master’s Tuition Scholarship (MTS) to students in good academic standing pursuing their second year of study in a two-year master’s program. The scholarship provides up to 75 percent discount in the second year’s tuition. Contact your program of interest for information regarding MTS eligibility.

WELCH SCHOLARSHIP

The Welch Scholarship is designated for tuition costs and will be disbursed incrementally for each credit (up to 80 credits) for students enrolled in the online/part-time MPH program. This funding can be used for online, in-person, institute or regular term courses.

For more information on these and other scholarships, visit www.jhsph.edu/admissions/scholarships/institutional-scholarships

62 Johns Hopkins Bloomberg School of Public Health
FINANCIAL AID OFFICE
The Financial Aid Office provides assistance with need based aid, 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, visit JHSPH Student Funding Resources at https://www.jhsph.edu/admissions/funding-resources

Additional resources for securing outside funding may be found on the website under Scholarships www.jhsph.edu/admissions/scholarships

Tuition 2018-2019
The following tuition rates and fees are for the 2018-2019 academic year. This information is also available at www.jhsph.edu/admissions/tuition-and-fees.

Doctoral, MAPHB, MBE, MHA, MHS, MSPH, ScM
full-time, 9-month academic year, 4 terms $54,144
full-time (12+ credits), per term $13,536
part-time $1,128 per credit

Master of Public Health
full-time, 11-month MPH academic year, 5 terms $67,680
full-time (12+ credits), per term $13,536
part-time $1,128 per credit*
*$878 per credit with scholarship, see Welch Scholarship on pg 62

Online Programs for Applied Learning (OPAL)
per credit $1,128
maximum scholarships per credit $433

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

Special Students/Others
full-time (12+ credits), per term $13,536
part-time $1,128 per credit

Estimated Living Expenses
Listed below are the estimated living costs for the 2018-2019 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>$10,242</td>
<td>$12,518</td>
</tr>
<tr>
<td>Food</td>
<td>$4,383</td>
<td>$5,357</td>
</tr>
<tr>
<td>Transportation</td>
<td>$3,340</td>
<td>$4,082</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$2,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>Insurance</td>
<td>$3,260</td>
<td>$3,912</td>
</tr>
<tr>
<td>Personal</td>
<td>$1,918</td>
<td>$2,344</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$25,143</strong></td>
<td><strong>$30,713</strong></td>
</tr>
</tbody>
</table>
BALTIMORE FACTS

› Population
   611,648

› Climate
   Like much of the Mid-Atlantic, Baltimore experiences all four seasons.
   - Average winter temperature: 37.0°F, with 2-3 snowfalls
   - Average summer temperature: 74.25°F, with high humidity

› City Nicknames
   Charm City, City of Firsts, City of Neighborhoods, Monument City

› Trivia
   - Home to the first post office system (1774)
   - Established the first dental school in the world (1840)
   - Place of Edgar Allan Poe’s mysterious death and burial
   - Invented the snowball which led to slushies, snow cones and shaved ice

› Resources
   www.baltimore.org
   www.baltimorecollegetown.org
   www.baltimoremagazine.net
   www.promotionandarts.org
   www.visitmaryland.org

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
- https://www.jhu.edu/life/arts-culture/

RECREATION
Baltimore is home to Major League Baseball’s 2014 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, the Community Engagement and Service-Learning Center for the JHU Schools of Public Health, Nursing and Medicine, engages the Johns Hopkins University health professional schools and Baltimore communities in mutually beneficial partnerships that promote health and social justice.

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 work-study opportunities, research, short-term consultancies, academic service-learning courses, and other involvement opportunities.

SOURCE also provides professional development for faculty and community leaders 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 http://SOURCE.jhu.edu, SOURCE@jhu.edu, or 410-955-3880.
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 learn about student life!
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
› Instagram  
  www.instagram.com/johnshopkinsSPH/
› 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. We will provide event information and resources to students after they’ve been admitted.
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
410-955-3004
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

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

Additional Schoolwide Offices

SOURCE
(The Community Engagement and Service-Learning Center for the JHU Schools of Public Health, Nursing, and Medicine)
410-955-3880
SOURCE@jhu.edu
http://SOURCE.jhu.edu

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
667-208-7012
http://ois.jhu.edu

Office of International Services Ambassadors
Christian.Pavik@jhu.edu
http://ois.jhu.edu/News_and_Events/OIS_Ambassadors/ Incoming_Students/

Prospectus Team
So many people contribute to this publication, we would need another 65+ 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
Sarah Diane Sadowsky

Associate Editor
Lauren Black

Photos:
David Alexander
Nandi Bwanali
Ed Cunicelli
Jordan Francke
Chris Hartlove
Remsberg, Inc
Sarah Diane Sadowsky
Sanghamitra Sarkar
Kyle Sherman
Rachel Smith Photography LLC
Katherine Tomaino
Mulugeta Wolde for Maternity Foundation
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 2018-2019 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. SmartWay is a partnership between EPA and large and small trucking companies, rail carriers, logistics companies, barge carriers, air carriers, commercial manufacturers, retailers, and other federal and state agencies. Collectively achieved (cumulative, 2004 - now):

- $24.9 billion dollars in fuel costs saved
- Saved 170.3 million barrels of oil -- the equivalent of taking over 14 million cars off the road for an entire year
- 72.8 million metric tons CO2 reductions
- 1,458,000 tons NOx reductions
- 72,000 tons PM reductions

Environmental impact estimates were made using the Environmental Defense Fund calculator. For more information, visit http://papercalculator.org.