Children huddle together under a bed net in a mosquito-prone area adjacent to Kolkata, India

The 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.
In today’s world, public health confronts urgent and complex questions.

How do we best predict and mitigate the health impacts of climate change? What will it take to make a dent in the opioid overdose epidemic? How can we better prepare for the next Ebola or Zika outbreak?

At a time when the future is uncertain for a number of U.S.-funded, public health-related programs, including infectious disease prevention, global health assistance, environmental protections, health insurance coverage for millions and biomedical research, the world needs bold and forward-thinking public health leadership.

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.

In our inspired, diverse and collaborative academic community, students can learn from and work alongside dedicated faculty in state-of-the-art laboratories, at field sites in more than 130 countries or in a public health practicum specific to their area of interest.

 Ranked as the #1 graduate school of public health for more than 20 years, the Bloomberg School serves 2,231 students from 76 nations, with 709 full-time faculty. With 10 departments, more than 60 centers and institutes, a range of degree and dual-degree programs, we offer our students an unparalleled public health education.

The breadth and depth of our research ensures students can engage in compelling work that aligns with their interests. We are bringing hard data and informed advocacy to the prescription opioid and gun violence epidemics, framing the issues from a public health vantage point. Faculty and students are conducting dynamic research to prevent neurodegenerative disease, assessing the effects of in utero exposure to environmental toxins and highlighting the importance of sex differences in infectious disease research.

In the fight against dengue, we are breaking new ground with the development of a protective experimental vaccine—work that holds promise in Zika vaccine research.

Our alumni, who number more than 23,000, hold top-level positions in ministries of health, international agencies, research centers, U.S. health departments and academic institutions worldwide.

Since our founding in 1916 as the first independent, degree-granting school of public health, we have been—and remain—on the public health frontlines.

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 mission: Protecting Health, Saving Lives—Millions at a Time.

Laura Morlock, PhD
Executive Vice Dean for Academic Affairs
Johns Hopkins Bloomberg School of Public Health
At a Glance

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

Students
2,231 from 76 nations

Faculty
709 primary, 829 affiliated

Alumni
23,000+ 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: jhsph.admiss@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 20 percent of all grants and contracts awarded to the 50 accredited U.S. schools of public health
› Ranked No. 1 by U.S. News and World Report since 1994

For more Bloomberg School facts, flip to page 5 or visit www.jhsph.edu

South Reading Room - Identical study areas with natural light can be found in the Wolfe Street building. These are popular quiet study areas for students.
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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 heart 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
› Delivering lifesaving vitamin A to newborns in developing nations
› 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>
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<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>
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<tr>
<td>1876</td>
<td>Johns Hopkins University is founded in Baltimore</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 program is established and William H. Welch founds the American Journal of Hygiene</td>
</tr>
<tr>
<td>1922</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>
</tr>
<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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<tr>
<td>1963</td>
<td>Toxicologist Anna Baețier, 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 Alfred Sommer proves a 4-cent dose of vitamin A prevents blindness and dramatically reduces childhood mortality</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>1976-1980</td>
<td>Dean Emeritus Alfred Sommer proves a 4-cent dose of vitamin A prevents blindness and dramatically reduces childhood mortality</td>
</tr>
<tr>
<td>1979</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>1980</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>
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<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>
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<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>
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<tr>
<td>2015</td>
<td>The Bloomberg School of Public Health hosts a symposium on opioid prescription drug abuse</td>
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<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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**THE FUTURE**

How will you make public health history?
The Johns Hopkins Bloomberg School of Public Health offers twelve graduate degrees (nine 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 Public Policy (MPP)
- Master of Science (ScM)
- Master of Science in Public Health (MSPH)

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

**Summary of Degrees**

**MASTERS’ DEGREES**

**Master of Applied Science (MAS)**
The Master of Applied Science is a fully online, part-time degree program offered by the Bloomberg School of Public Health. 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 43 or visit 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 offered by the Bloomberg School of Public Health. 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*

**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*

**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 27 or visit 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

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

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

The program is currently undergoing an evaluation and will not be accepting applications for the Fall 2018 cohort. Check back in Fall 2018 for information on the MPP 2019/2020 admissions cycle.

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

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

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

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

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

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

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

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

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 40 or visit www.jhsph.edu/academics/degree-programs/doctoral-programs/doctor-of-public-health
### Overview of Degrees and Areas of Study

<table>
<thead>
<tr>
<th>MPH</th>
<th>Schoolwide</th>
<th>Students may customize their degree or pursue one of the following areas of study:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• Aging and Public Health&lt;br&gt;• Child and Adolescent Health&lt;br&gt;• Epidemiologic and Biostatistical Methods for Public Health and Clinical Research&lt;br&gt;• Food, Nutrition and Health&lt;br&gt;• Food Systems and Public Health&lt;br&gt;• Global Environmental Sustainability and Health&lt;br&gt;• Health in Crisis and Humanitarian Assistance&lt;br&gt;• Health Leadership and Management&lt;br&gt;• Health Systems and Policy&lt;br&gt;• Infectious Diseases&lt;br&gt;• Social and Behavioral Sciences in Public Health&lt;br&gt;• Women’s and Reproductive Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Berman Institute of Bioethics</strong>&lt;br&gt;• Clinical Ethics&lt;br&gt;• Ethics, Policy and Emerging Biotechnologies&lt;br&gt;• Global Bioethics&lt;br&gt;• Public Health Ethics&lt;br&gt;• Research Ethics</td>
</tr>
</tbody>
</table>

| MBE | **Health Policy and Management**<br>• Health Administration |

| MHA | **Health Policy and Management**<br>• Health Administration |

| MPP | **Health Policy and Management**<br>• Public Policy |

| MSPH | **Environmental Health and Engineering**<br>• Occupational and Environmental Hygiene<br>• Toxicity Testing and Human Health Risk Assessment of Environmental Agents<br>• Health, Behavior and Society<br>• Health Education and Health Communication<br>• Health Policy and Management<br>• Health Policy<br>• International Health<br>• Global Disease Epidemiology and Control<br>• Health Systems<br>• Human Nutrition<br>• Social and Behavioral Interventions<br>• Population, Family and Reproductive Health<br>• Adolescent Health<br>• Child Health<br>• Maternal, Fetal and Perinatal Health<br>• Women’s Health<br>• Sexual and Reproductive Health<br>• Population and Health |

| MHS | **Biochemistry and Molecular Biology**<br>• Biochemistry and Molecular Biology<br>• Biostatistics<br>• Biostatistics<br>• Environmental Health and Engineering<br>• Environmental Health<br>• Epidemiology<br>• Cancer Epidemiology<br>• Cardiovascular and Clinical Epidemiology<br>• Clinical Trials and Evidence Synthesis<br>• Environmental Epidemiology<br>• Epidemiology of Aging<br>• General Epidemiology and Methodology<br>• Genetic Epidemiology<br>• Infectious Disease Epidemiology<br>• Graduate Training Programs in Clinical Investigation<br>• Clinical Investigation<br>• Health, Behavior and Society<br>• Social Factors in Health<br>• Health Policy and Management<br>• Health Economics<br>• Health Finance and Management<br>• International Health<br>• Health Economics<br>• Mental Health<br>• Mental Health<br>• Molecular Microbiology and Immunology<br>• Molecular Microbiology and Immunology<br>• Population, Family and Reproductive Health<br>• Demography<br>• Adolescent Health<br>• Child Health<br>• Maternal, Fetal and Perinatal Health<br>• Women’s Health<br>• Sexual and Reproductive Health<br>• Population and Health |

| ScM | **Biochemistry and Molecular Biology**<br>• Biochemistry and Molecular Biology<br>• Biostatistics<br>• Biostatistics<br>• Environmental Health and Engineering<br>• Environmental Health<br>• Epidemiology<br>• Cancer Epidemiology<br>• Cardiovascular and Clinical Epidemiology<br>• Clinical Trials and Evidence Synthesis<br>• Environmental Epidemiology<br>• Epidemiology of Aging<br>• General Epidemiology and Methodology<br>• Genetic Epidemiology<br>• Infectious Disease Epidemiology<br>• Health, Behavior and Society<br>• Genetic Counseling<br>• Molecular Microbiology and Immunology<br>• Molecular Microbiology and Immunology

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### Interdepartmental Programs

| MAPHB | **Interdepartmental**<br>• Master of Arts in Public Health Biology |

| MAS | **Interdepartmental**<br>• Patient Safety and Healthcare Quality<br>• Population Health Management<br>• Spatial Analysis for Public Health |

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8 Johns Hopkins Bloomberg School of Public Health
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

ScD

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

Combinations

Degree Programs Offered with Other Institutions
- BA/MHS
- BA/MSPH
- 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 Sciences: MSPH in Occupational and Environmental Hygiene
- Environmental Health Sciences: MSPH in Toxicity Testing and Human Health Risk Assessment of Environmental Agents

The following programs are completed entirely online:
- Master of Applied Science in Patient Safety and Healthcare
- Master of Applied Science in Population Health Management
- Master of Applied Science in Spatial Analysis
- 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

CHART KEY
*Applicants may not matriculate directly into this ScM degree
†The program is currently undergoing an evaluation and will not be accepting applications for the Fall 2018 cohort. Check back in Fall 2018 for information on the MPP 2019/2020 admissions cycle.
Biochemistry and Molecular Biology is the study of molecular and genetic bases of cellular processes. Faculty in the Department of Biochemistry and Molecular Biology conduct research on the molecular, genetic and biochemical mechanisms of normal and abnormal cellular processes.

Our research and graduate programs are applied to a broad group of important and currently relevant health problems such as cancer, aging, neurological diseases, fertility and environmentally based diseases.

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

The Biochemistry and Molecular Biology programs are planned for individuals with a bachelor’s degree in chemistry, biochemistry or biology, preferably with experience in physical chemistry, physics and mathematics. Applicants are requested to indicate their research experience and career goals and to name the person(s) with whom their research experience has been gained.

Interim Department Chair
Michael J. Matunis, PhD

Academic Program Administrator
Shannon Gaston
410-955-3672
sgaston1@jhu.edu

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

www.jhsp.h.edu/departments/biochemistry-and-molecular-biology

DEPARTMENT DISTINCTIVENESS

“As one of the founding departments in the Bloomberg School of Public Health, the Department of Biochemistry and Molecular Biology has a unique 100-year history of illuminating molecules and molecular processes that form the foundations of human health and disease. Current research is providing insights into the molecular causes of aging, cancer, neurodegenerative diseases, obesity and bacterial and fungal pathogenesis, and thus providing new opportunities to treat and prevent some of today’s most significant public health concerns.” Michael Matunis, PhD, Interim Department Chair

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**
application deadline: April 15

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

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

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**Student Spotlight**

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

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

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

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

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

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

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

DEGREE PROGRAMS

Master of Health Science (MHS) in Biostatistics
- duration: 1 year**
- special application requirement: must already have advanced degree in health science (e.g. MD or PhD)
- application deadline: Jan 15

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.

Master of Science (ScM) in Biostatistics
- duration: 2 years**
- application deadline: Jan 15

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

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

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

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

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

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

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

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

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

> Learn “How to Apply” by flipping to page 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 masters’ 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.

> 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

DEPARTMENTAL FUNDING

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

All applicants to our PhD program, regardless of citizenship or nationality, are automatically considered for the 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.

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.

Only two 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.

Jason Ji
PhD Candidate
Biostatistics
The Department of Environmental Health and Engineering (EHE) comprises a dynamic group of faculty, staff and graduate students at the masters’ and doctoral levels. The EHE Department engages in training, research and practice activities in two broad areas: Exposure Sciences and Environmental Epidemiology and Toxicology, Physiology, and Molecular Mechanisms. Faculty and students evaluate the impact of chemical, biological, physical and psychosocial exposures on human health spanning the breadth of environmental media including food, water and air and encompassing integrating concepts of the built environment and environmental sustainability. Our mission is to develop solutions to key challenges in local, national and global environmental health, from the molecular to population-wide impacts. This is accomplished by investigating sources and distributions of exposures, mechanisms of action, biomarkers of exposure and biological effects, individual and population-based responses, and susceptibility factors at both the individual (molecular, cellular, organ, whole-body) and societal levels. In addition, environmental risks are assessed and prevention/intervention strategies are devised and evaluated.

Our broad, multidisciplinary approach creates a collaborative and supportive learning atmosphere for students with diverse backgrounds and interests, while assisting them in developing lifetime careers in environmental and public health research and practice. Our graduates work in academic research institutions, health agencies, health departments and private industry organizations that are leaders in environmental and occupational health in the U.S. and in many countries around the world.

**DEGREE PROGRAMS**

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

The MHS program in Environmental Health addresses the diverse academic and practice needs of the environmental health field. For some students, the degree serves as a foundation for further academic training in medical school or doctoral programs. For others, the knowledge base allows them to successfully pursue positions in the government, non-profit or private sector.

Each student enrolled in the MHS is matched with an adviser based on interests and areas of expertise. It is anticipated that students will develop a close bond with 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.

The three focus areas are:
- Human Toxicology, Pathophysiology and Risk Assessment
- Population Environmental Health
- Food Systems, Water and Environmental Sustainability

**ScM in Environmental Health**
- duration: 2 years**
- application deadline: April 15

The ScM program targets individuals with a serious interest in pursuing research in environmental health. Typically, these students have previously worked hands-on in laboratory, field or population-based investigations and would like to build upon that experience.

Prospective students initially apply to the MHS program and indicate their interest in

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*Applicants may not matriculate directly into this degree

**The time it takes to complete a degree may vary by student and circumstances
the ScM program on the application. 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.

Coursework in the first year mirrors that of the MHS, consisting of the same set of core and elective courses focused on the three content areas listed on page 14. At the end of their first year, ScM students complete their comprehensive examination and transition to a second year of 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.

MSPH

duration:
› full-time program, 18 months**
› online/part-time program, 2.5 to 4 years**

application deadlines:
› April 15 (full-time program)
› July 1 (part-time program)

The Master of Science in Public Health is a professional degree program that provides individuals with the knowledge and skills needed to begin or advance their career as a public health professional. Students can choose one of two track options: Occupational and Environmental Hygiene or Toxicity Testing and Human Health Risk Assessment of Environmental Agents. An internship is required for each track.

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

DEPARTMENT DISTINCTIVENESS

“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

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

BA/MHS or BA/MSPH

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

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

application deadline:
July 1 between junior and senior undergraduate years

The Department of Environmental Health and Engineering 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.
Further information about the Certificate in Environmental and Public Health can be found on page 56 or by visiting www.jhsph.edu/academics/certificate-programs.

PhD in Environmental Health Sciences

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; Toxicology, Physiology and Molecular Mechanisms. The goal of the PhD training in EHE is to, through core and track-specific courses, research rotations, qualifying examinations and mentored research, prepare graduates 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 the key driver of these diseases.

Students will take in-depth courses in molecular, toxicologic, physiologic, 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.

DrPH Environmental Health Concentration

duration: 4-6 years**

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

application deadline: Dec 1

The Department of Environmental Health and Engineering offers the Environmental Health concentration within the schoolwide DrPH program.

The DrPH program educates senior level professionals in the biomedical sciences, behavioral sciences, epidemiology and biostatistics, legal, economic and social issues, engineering technologies, management concepts and communication skills. DrPH graduates are highly skilled scientists and practitioners who can comprehend and integrate the many dimensions of environmental health sciences, define the disciplines that can best be applied to a problem, make sound and critical judgments, and implement proactive change. The EHE DrPH curriculum emphasizes the integration and application of a broad range of knowledge and analytical skills. Graduates are leaders and innovators in environmental health sciences in local, regional, national and international settings as well as private sector companies, foundations, consulting businesses and academia.

Further information about the schoolwide DrPH program and concentrations can be found on page 40.

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

ADDITIONAL EDUCATIONAL OPPORTUNITIES

Postdoctoral Positions

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

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

CERTIFICATES

The Department of Environmental Health and Engineering offers the following certificate programs:

- Certificate in Environmental and Occupational Health
- Certificate in Food System, the Environment and Public Health
- Certificate in Health and Human Rights
- Certificate in Humane Sciences and Toxicology Policy

For more information regarding certificates, flip to page 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, scholarships 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) 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 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. Given that the admissions process is highly competitive, be sure to submit your application – with all supporting documents – by the published deadline.

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

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

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

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

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

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

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

Cissy Li
PhD’15
Environmental Health Sciences
Epidemiology is the study of the incidence and prevalence of diseases and of the determinants of health and disease risk in human populations. The Department of Epidemiology at the Bloomberg School is the oldest and among the largest epidemiology departments in the world. The mission of the department is to improve the public’s health by training epidemiologists and by advancing knowledge concerning the causes and prevention of disease and the promotion of health.

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

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

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

**DEGREE PROGRAMS**

**MHS and ScM**

duration: 2 years**

application deadline: Jan 15

The department provides broad training in general epidemiology and in one of eight tracks detailed on the next page. Both masters’ programs in epidemiology consist of coursework and a thesis and are campus-based. 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. Some go on to work in the field; in city, county or state health departments; or in academic research institutions. Students often continue their studies through additional doctoral or medical degree programs.

“**DEPARTMENT DISTINCTIVENESS**

“The Department of Epidemiology is the first academic department in the United States and is the largest department internationally. Founded as a research university based on the German model, we seek to embed students into active research projects soon after they arrive here, using experiences gained to promote education.” David Celentano, ScD, Department Chair

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**DEPARTMENT DISTINCTIVENESS**

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**www.jhsph.edu/departments/epidemiology/**
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 School. 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: 5 years**

application deadline: Dec 1

The doctoral programs in Epidemiology are comprised of two years of full-time coursework followed by two to three 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 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 “Methodologic Issues in Cancer Epidemiology.”

**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.

**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 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.

† 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.
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
- Risk Sciences and Public Policy

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

DEPARTMENTAL FUNDING
The Department of Epidemiology is committed to helping students pay for their graduate education. While we have limited sources of student support, the School provides Master’s Tuition Scholarships (MTS) in the amount of 75 percent tuition for students who have completed the first year curriculum, 64 credits at JHSPH, with a grade point average of 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 a competitive tuition package for all incoming full-time doctoral students beginning in the first term for up to five years of their program provided they maintain a 3.0 grade point average in their courses and continue to make progress in their research according to the timelines approved by their adviser and the School.

For the previous academic year, all incoming full-time doctoral students were awarded 100 percent tuition for years one and two, 85 percent tuition for years three and four, and fifty percent tuition for year five. Doctoral students are expected to serve as research and teaching assistants and write grants to augment their tuition and 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

Alumni Spotlight
A fourth year PhD student in 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 is now working with his academic adviser, Professor Taha Taha, on his doctoral thesis 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 is studying 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.

After graduation, Jim joined the Department of Epidemiology as an Assistant Scientist and is conducting AIDS research in hopes of finding innovative interventions to improve the health of adults and children globally and particularly in sub-Saharan Africa.

Jim Aizire, PhD ‘17
Epidemiology
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.

**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

**DEGREE DISTINCTIVENESS**

“The program is a joint venture between the Johns Hopkins Bloomberg School of Public Health and the Johns Hopkins School of Medicine, which trains clinicians to be more effective clinical scientists. The focus is on skills necessary to design and conduct clinical investigations of emerging medical treatments and technologies, and to apply new diagnostic techniques and approaches to the study of human pathophysiology.”

N. Franklin Adkinson, Jr. MD, Program Director

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

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

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

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

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

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

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

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

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

Doris collected enough data through her initial study to apply for additional funding. She received an NIH award to conduct a larger, longitudinal cohort study.
Department of 
Health, Behavior and Society

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

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

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

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

DEGREE PROGRAMS

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

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

> 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

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**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 research explores 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 along 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 have been 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.

Zoé Hendrickson
PhD ’17
Health, Behavior and Society
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 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
- Social Policy

**DEGREE PROGRAMS**

**MHS in Health Economics**

duration: 9 months**

priority application deadline: Jan 15

Health Economics applies economic theories of consumer, producer and social choice to understand the behavior of individuals, health care providers, public and private organizations and government decision-making. The MHS in Health Economics is offered jointly by the departments of Health Policy and Management and International Health.

This degree is intended for students with a passion for public health or medicine, to develop skills in health economics, economic evaluation and econometrics. Program requirements include a rigorous common core of classes spanning health economics, economic evaluation, econometrics, statistics and epidemiology. The program provides students with a solid foundation in general health economics and evaluation methods necessary to promote the efficient and equitable allocation of health care resources in public health and to identify relevant regulatory policies, strategies and interventions.

Ideal applicants should have some experience in economics and a strong background in math with awareness of both calculus and linear algebra. Graduates of this program are well positioned to pursue doctoral training in economics and health policy or careers as analysts in both public and private sectors.

**www.jhsph.edu/departments/health-policy-and-management**

*The time it takes to complete a degree may vary by student and circumstances*
MHS in Health Finance and Management
duration: 12 months**
priority application deadline: Jan 15

The MHS in Health Finance and Management is an academic program designed to give U.S. and international students a foundation in health finance and management through interdisciplinary study. Students will focus their study on scholarly research topics such as population health, patient-centered care, health economics, policy, data analytics and health system improvement. Students gain the skills necessary to achieve value-based health care in pursuit of continuous quality improvement.

The program is intended for students who already have clinical experience or hold administrative positions within healthcare organizations. The program prepares current professionals for management and leadership careers. With its unique placement within the Bloomberg School, the program emphasizes policy topics with linkages to health and social policy—such as housing, sexuality, mental and behavioral health, trauma, substance abuse, employment and workforce development, built environment, violence, criminal justice and corrections, nutrition, emergency preparedness, education, transportation, poverty and equity.

Check back in Fall 2018 for information on the 2019/2020 admissions cycle.

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 interview are required. Please note that admitted students must complete the BA degree before formally enrolling in the Bloomberg School of Public Health.

Students admitted to the BA/MSPH program complete a year of coursework after officially enrolling as a graduate student in the MSPH program in addition to the field placement.
PhD

duration: 4 to 6 years**
application deadline: Dec 1

The PhD program in Health Policy and Management is designed for students whose career goals are focused on conducting publishable, independent and original research. The curriculum emphasizes the translation of public health sciences into practice and policy. Our goal is to train researchers to become agents of change to promote the public’s health through effective, efficient and equitable policies, programs and services. Graduates of the program use their acquired substantive and methodological skills in a wide range of work settings, including institutions and organizations for teaching and research as well as policy and practice.

Interested PhD applicants will focus their studies in one of the four areas of concentration and are required to be in residence at the Johns Hopkins East Baltimore campus for the duration of the coursework portion of the program.

PhD Concentrations

Bioethics and Health Policy is designed for students who want bioethics to be the distinguishing characteristic of their public health careers. The program prepares students to use quantitative and qualitative research methods to explore moral questions in public health and health policy.

Students examine ethical issues in public health practice, research and policy such as: emergency preparedness, domestic and international research ethics, genetic screening policy, ethics and obesity prevention, ethics and infectious diseases, HIV screening, social justice and resource allocation.

Health Economics and Policy prepares students for research and teaching careers in health economics. The program’s curriculum is grounded in applied micro-economic theory, quantitative methods and applied econometrics, including PhD-level courses from the Department of Economics in the Krieger School of Arts & Sciences.

Coursework and research use economic theory, econometrics and evaluation techniques to assess the ways that patient, provider and payer behaviors influence health and healthcare utilization.

Health Services Research and Policy provides a firm grounding in public health principles, research and evaluation methods, policy analysis and numerous content areas related to health services delivery and population health. Students acquire the conceptual and methodological tools needed to conduct research, program evaluation and policy analysis and synthesis to advance the state of knowledge.

Health care systems are under extreme pressure, with rising costs, non-optimal quality and outcomes and the lack of access for many vulnerable populations. With rapidly evolving payment and delivery systems, there is a great need for researchers and policy analysts to develop and evaluate solutions, address these issues within public and private organizations and lead health care reform in the U.S. and globally.

Health and Public Policy focuses on finding solutions to public health problems through the development, analysis, implementation and evaluation of health determinants and health policies.

Students examine challenging public health problems and learn how political, social, economic, ethical and legal factors affect health and how 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.

DrPH Concentration in Health Policy and Management

duration: 4-6 years**

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

application deadline: Dec 1

The DrPH concentration in Health Policy and Management focuses on integrating and applying knowledge and skills in leadership, practice, program and financial management, and communication with an emphasis on the application of policy, practice and management perspectives to contemporary health problems. To focus their studies, applicants choose from one of three tracks within this concentration:

› Healthcare Management and Leadership
› Public Health Informatics
› Quality and Patient Safety

Graduates of the program use their acquired knowledge and methodological skills in a wide range of leadership and managerial roles, as well as in research and teaching positions. Program alumni from the Department serve in middle to senior-level positions in hospitals, other health services delivery organizations, consulting firms and university settings as well as in U.S. government and international organizations.

Further information about the schoolwide DrPH program, concentrations and tracks can be found on page 40.

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.

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

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ADDITIONAL EDUCATIONAL OPPORTUNITIES

Certificates
The department offers the following certificate programs:
› Certificate in Bioethics and Public Health Policy
› 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

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 more information regarding institute offerings, visit www.jhsph.edu/departments/health-policy-and-management

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

Doctoral Programs
The department is committed to providing competitive funding packages to admitted full-time PhD students. Packages include four years of tuition, individual health insurance and stipends. PhD students are encouraged to apply for outside funding for support during dissertation writing. Due to the part-time nature of the school-wide DrPH program, no funding support is available for the HPM DrPH concentration.

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

DEPARTMENTAL FUNDING

DEPARTMENT DISTINCTIVENESS

Student 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 is also looking forward to her field placement where she can apply what she has been studying 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.

After completing her field placement with MedStar’s Emergency Physicians (MEP) and Institute for Innovation (MI2), Ellie hopes to continue her career on the provider side of health administration.

Ellie Hwang
MHA Candidate
Health Policy 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
The Department of International Health (IH) at the Bloomberg School seeks to understand health problems and develop affordable means of disease reduction and health protection in underserved populations of the world. As the oldest and largest Department of International Health in the world, the department is uniquely equipped to develop affordable ways of protecting and improving health through health services and behavioral changes.

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

**DEGREE PROGRAMS**

**MHS in Health Economics**
duration: 1 year**
application deadline: Jan 15

The MHS in Health Economics 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 Health Economics is an academic degree, offered jointly by the departments of International Health and Health Policy and Management. The program requires four academic terms of course work, a comprehensive exam and a scholarly paper. Prospective students apply to one of the two departments based on academic and career interests. However, students from both departments participate in a common core of classes spanning health economics, behavioral economics, economic evaluation, econometrics, statistics and epidemiology.

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 public and private sectors.

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

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

Program requirements consist of a minimum of four academic terms of 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)**

**application deadline:** Dec 1

Selected MSPH students in Human Nutrition can meet their practicum requirements completing 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.

**BA/MHS in Health Economics or BA/MSPH in Global Disease Epidemiology and Control, and 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, SBI or 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 to 5 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 clinical research and implementation in the U.S. and internationally.

GDEC graduates enjoy careers in academia, government and nongovernment sectors, and industry. Alumni hold faculty appointments at leading universities and ministries of health on five continents and positions at major global health organizations, including WHO, CDC, FDA, NIH, 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, nutritional biochemistry and metabolism, nutritional assessment methods, food and nutrition policy and programs, nutritional epidemiology and other areas of public health application. Students are challenged to identify and consider solutions 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 research and in public health leadership across diverse areas of applied nutrition.

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

Social and Behavioral Interventions (SBI) offers multidisciplinary 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 prior 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
ADDITIONAL EDUCATIONAL OPPORTUNITIES
The department offers the following certificate programs:
› Certificate in Global Health (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

› 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 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/

DEPARTMENTAL FUNDING
Masters’ Programs
MSPH students are eligible for the following 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 admitted applicants will be considered. Students in the MHS in Health Economics degree are excluded from receiving this scholarship.

PhD Program
The Department of International Health awards tuition scholarships for most doctoral students. The scholarship pays for 75% of tuition for five 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

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

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

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

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

She would also like to teach.

“In addition to the great mentorship I’ve had in GDEC as a student, I’ve also had very rewarding experiences as a teaching assistant. I’m eager to continue passing on the skills I’ve learned to other young scientists.”

After graduating in May, Jessica joined the International Health faculty as an Assistant Scientist. She is working on a project that strives to better understand important questions related to maternal immunization for respiratory syncytial virus (RSV), including designing a clinical trial for RSV vaccines in pregnant women. Jessica is looking at improving the uptake of vaccines in pregnancy among the Navajo and White Mountain Apache in the American Southwest.

Jessica Atwell
PhD’16, MPH’11
International Health
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.

**DEPARTMENT DISTINCTIVENESS**

“As the only Department of Mental Health in a School of Public Health, we have the unique advantage of combining the power of public health methods and approaches with rigorous behavioral and mental health measurement and expertise to prepare the next generation of public health researchers and practitioners who are capable of tackling the interdependency of physical and mental health.” Daniele Fallin, PhD, Department Chair

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**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.

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**Department Chair**
M. Daniele Fallin, PhD

**Senior Academic Program Coordinator**
Patricia E. Scott
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jhsp.mhdept@jhu.edu

**Degree Programs**
- Master of Health Science (MHS) in Mental Health
- Bachelor of Arts (BA)/Master of Health Science (MHS)
- Doctor of Philosophy (PhD) in Mental Health

**www.jhsp.edu/departments/mental-health/**
**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.

› 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:

› 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 Child Mental Health Services and Service Systems Training Program
› The NIMH Global Mental Health Training Program
› The NIMH Psychiatric Epidemiology Training Program

### DEPARTMENTAL FUNDING

Financial support—including tuition, fees and stipend—is available for well-qualified applicants. The department is able to fund selected doctoral- and postdoctoral-level individuals through its NIMH and NIDA training programs.

› 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

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### Student Spotlight

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

After graduation, Luke spent five years applying the skills learned through his MHS at the Kennedy Krieger Institute. The experience helped him realize that he wanted to be an independent researcher. Where to apply 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 in Autism.

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

The population Luke focuses on is children with autism. Specifically, he studies psychiatric service utilization. He seeks 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.

Luke Kalb
MHS’08, PhD Candidate
Mental Health

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**DEPARTMENT DISTINCTIVENESS**

“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

**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 public health ecology, account for about half of that number. Students work closely with faculty members, one of whom will serve as the student’s adviser and assist the student with exploring the literature and selecting a topic for the required essay. MHS students will present one seminar based on the essay topic. All masters’ students may first apply to the MHS program. In the third term of the first year, students who wish to do so may apply for transfer to the ScM program. Students who are certain they want to pursue a research-based degree that involves original research may apply directly to the ScM program.

**Department Chair**

Arturo Casadevall, MD, PhD

**Academic Program Administrator**

Gail O’Connor

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**Degree Programs**

› Master of Health Science (MHS) in Molecular Microbiology and Immunology

› Master of Science (ScM) in Molecular Microbiology and Immunology

› Doctor of Philosophy (PhD) in Molecular Microbiology and Immunology

[www.jhsp.edu/dept/mmi](http://www.jhsp.edu/dept/mmi)
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 medical entomology. MMI PhD students learn mechanistic approaches to solving fundamental questions in microbiology and public health.

In the first year of the program, PhD students complete a core, three eight-week laboratory rotations and choose a thesis advisor. 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.

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

Student Spotlight

Landon von Steeg came to JHSPH after earning his MSPH in Tropical Medicine from Tulane University and is now in his fourth year of his PhD. His dissertation research looks at the effects of sex, age, and hormones on infectious disease pathogenesis and vaccine outcomes. Using influenza virus infection in mice, his research is addressing the role that testosterone plays in explaining why young males suffer less severe inflammation than either age matched females or older males. His research is suggesting that testosterone affects populations of T cells to help protect young males from the detrimental effects of influenza. Using a murine malaria vaccine model, Landon is also addressing the effects of sex, young age, and hormones on the efficacy of candidate malaria vaccines.

In addition to being able to diversify his research at the Bloomberg School, Landon likes the large size of the program. “If you have problems with a certain technique, there’s someone around who is an expert on it. There are lots of collaborators that you can go down the hallway and talk to someone for help.” He emphasizes the recourses and the advantages of also being a part of the Center for Excellence for Influenza Research and Surveillance. The diversity and expertise available create opportunities he wouldn’t have found in another program.

Landon von Steeg
PhD Candidate
Molecular Microbiology and Immunology
Population, Family and Reproductive Health

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

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

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

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

**DEGREE PROGRAMS**

**MHS in Demography**

duration: 1 year**

application deadline: 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 the spectrum of professional opportunities by enabling them to market themselves as trained in demography.

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

**MHS**

duration: 1 year**

special application requirement: must have a doctoral degree

application deadline: April 15

This MHS is a one-year academic program designed for students who are interested in advancing their knowledge base related to a focal area within the department and wish to strengthen their research and analytic skills, improving their potential for career advancement. This program has a part-time option for working professionals.

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

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**DEPARTMENT DISTINCTIVENESS**

“The Department of Population, Family and Reproductive Health applies population and life course principles in training the next generation of leaders who will advance health and well being through scientific discovery, its translation, scholarship and public health practice, domestically and globally.” Cynthia Schaffer Minkovitz, MD, MPP, Department Chair

**www.jhsph.edu/dept/pfrh**
Kate Baye dreams of influencing the world through health. Her dream is not just to improve the health of individuals, but the health of whole societies.

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

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

Kate’s master’s focus was specifically sexual and reproductive health, but she also worked on a certificate in maternal and child health. Kate intends to work toward improving the lives of mothers and children.

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

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 was recently re-designed to emphasize 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.

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 are occasionally admitted as full-time students. Potential applicants wishing to apply for a full-time program should contact the program manager.

DrPH CURRICULUM
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 students with opportunities to apply skills in a close to real life setting.

Students will also address additional competencies that relate either 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 practicum and a dissertation, for a total of 64 term credits. Students will take a qualifying 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, to a maximum of 9 years.

DrPH CONCENTRATIONS
Full-time and part-time DrPH students can choose one of four concentrations or customize their program to fit their own learning objectives. Students take a minimum of 28 taught credits within their chosen concentration or customized program of study in addition to their 28 foundational credits.

**The time it takes to complete a degree may vary by student and circumstances
DrPH Customized Program of Study provides students the flexibility 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 advisers 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 application 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 concentration 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, program and financial management, and communication with an emphasis on the application of policy, practice and management perspectives to contemporary health problems. To focus their studies, applicants choose from one of three tracks 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 offers 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 or specialization 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 track targets those who have master’s level training related to public health, informatics, computer sciences, or healthcare management.

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

> Learn more about the Health Policy and Management concentration at http://www.jhsph.edu/departments/health-policy-and-management/degree-programs/drph-in-health-policy-and-management/
Implementation Science is an inter-departmental 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](http://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](http://www.jhsph.edu/offices-and-services/student-affairs/financial-aid)
The Johns Hopkins Bloomberg School of Public Health offers fully online, part-time masters’ degrees and a certificate program, 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.

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 in patient safety and healthcare 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.

**The time it takes to complete a degree may vary by student and circumstances**
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 understand 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 design low cost interventions. Students will also be equipped to support state and local public health agency efforts in assessing health needs, quality of services and strategies for health services research. The program will enable students to apply social and behavioral constructs to develop and enhance community engagement and involvement to improve health. The program will provide learners with training in epidemiology and biostatistics and skills in population health management.

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 training in epidemiology and biostatistics, courses that reflect the breadth of public health, practical skills derived from workshops in professional development and skills in spatial analysis through the comprehensive spatial science paradigm of spatial data, geographic information systems and spatial analysis.

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

FUNDING
The OPAL certificate and MAS programs have competitive price points and substantial tuition scholarships are available for students starting the program in fall 2018. Your admission application also serves as your scholarship application; therefore, no additional forms are required.

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 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.

The program is interdepartmental, involving the active participation of the School’s three biological sciences-based departments: Biochemistry and Molecular Biology (BMB), Environmental Health and Engineering (EHE), and Molecular Microbiology and Immunology (MMI). Required coursework is offered by these three departments, and also by the Departments of Biostatistics and Epidemiology. The program culminates in the writing of a literature-based scholarly thesis. 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.

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

FUNDING

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

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

Institute faculty have also led and served on multiple presidential bioethics commissions as well as committees of the National Academy of Medicine (NAM), 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.

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

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

DEGREE DISTINCTIVENESS

“A unique, multidisciplinary partnership with the Johns Hopkins Berman Institute of Bioethics, the Master of Bioethics program prepares students from diverse individual and professional backgrounds for the bioethics challenges of professional and civic life.” Travis Rieder, MBE Program Director
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 opportunities database at www.jhsph.edu/offices-and-services/funding-opportunities.

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

As Cameron Okeke progressed through his undergraduate years at the University of Chicago, he realized he really liked medicine, science and health, but didn’t want to be a practitioner. “One of the reasons I can’t be a doctor is because I don’t like downstream problems. I like upstream problems.” His undergraduate thesis work included the topic of cross cultural medical morality which influenced his decision to not pursue medical school. When a friend shared an e-mail with him on the Master of Bioethics, everything clicked.

“I focus primarily on social institutions and social justice,” says Cameron, who created his own track in Public Health and Public Policy Ethics. “It’s relatively new. It’s not clinical ethics, it’s not research ethics, it’s probably the newest iteration of ethics.” He describes bioethics “like no other field that exists. It’s an interdisciplinary, multidisciplinary field—where you come primarily to help do what’s right, [and] make right things that are wrong in the world.”

Cameron emphasized the value of being exposed to public health classes alongside the ethics and social justice classes. He came to JHSPH to work with Ruth Faden, the former director of the Berman Institute of Bioethics, and people who were doing important policy work like Daniel Webster. “The best thing you can get from it [the MBE] is not just how to do something, but how to find where you stand in a storm of moral ideas.”

He also took advantage of everything Bloomberg has to offer by talking to anyone and everyone around because “someone is always doing something really cool or amazing”. He found the real value in being “around people who are doing amazing things, amazing intellects and incredible passions.”

After graduating, Cameron went to the Justice Policy Center at the Urban Institute in Washington D.C. where he is researching and analyzing criminal justice policy.

Cameron Okeke
MEB ’17
Berman Institute of Bioethics
The MPH is a Schoolwide program designed to provide students with a population perspective on health. The program prepares students to become leading public health professionals capable of addressing current global public health problems through multidisciplinary approaches using the latest scientific knowledge. The MPH is a flexible program, fulfilling a variety of professional and career goals. Students may study full-time on the Baltimore campus or part-time over the Internet. Full- and part-time students fulfill the same academic requirements and receive the same degree.

**Choice of Format**

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

- 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.

**Degree Distinctiveness**

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


### 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](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. This concentration 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 (CAH)

focuses on understanding developmental and health issues of children and adolescents across the globe, the nature and scope of the multiple determinants of their health status, and the range of public health programs to address the health and well-being of children and their families, in domestic and international settings.

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

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 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.

ADDITIONAL ACADEMIC OPPORTUNITIES

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

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 medical school curriculum

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

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

*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

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 conglomerate 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.

While Carrasco has several job offers prior to graduating, he is hoping to first earn his DrPH. 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.

Hector Carrasco
MPH’17
Combined Degree Programs

DEGREE PROGRAMS OFFERED WITH OTHER SCHOOLS AND INSTITUTIONS

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

The departments of Environmental Health 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.

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

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

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

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

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

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

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

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

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

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

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

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

- **For more information on the MPH/ JD, contact Professor Jon Vernick at 410-955-7982 or jvernic1@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](http://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 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 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 jvernic1@jhu.edu**

**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 MBA Program Office at 410-955-1291 or mphprog@jhu.edu**
- **For more information, contact 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](http://som.georgetown.edu/prospectivestudents/degrees/dualdegree)**

**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 21-23 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 a community, design and implement targeted health policies and programs, and take leadership roles in their organizations.

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

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

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

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

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

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

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

**MSN/MPH**

The Johns Hopkins University School of Nursing and the Bloomberg School offer a Master of Science in Nursing (MSN) and Master of Public Health (MPH) degree program. This 18-month curriculum of full-time study is designed specifically for nurses seeking to link their clinical and managerial interests with public health so as to 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 steering committee for the degree program will make the final admission decision.

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 admission priority 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**

**MD/PhD**

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

- **For more information, visit the program’s website at www.hopkinsmedicine.org/mdphd, or contact the MD/PhD Program Administrator, Ms. Sharon Wellinger (swellin1@jhu.edu or 410-955-8008)**

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

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

**Doctoral/MHS in Biostatistics**

The Department of Biostatistics provides students who are candidates for doctoral-level degrees in one department of the School with the opportunity to earn a Master of Health Science (MHS) degree in Biostatistics during the course of their doctoral studies.

Candidates must apply directly to, and be admitted by, the Department of Biostatistics. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the MHS degree. The MHS must be relevant to the candidate’s field of doctoral study and must not impede progress in the doctoral program.

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

**Doctoral/MSPH in International Health**

The Department of International Health provides students who are candidates for doctoral-level degrees in one department of the Bloomberg School with the opportunity to earn a Master of Science in Public Health (MSPH) degree from the Department of International Health during the course of their doctoral studies. A similar opportunity exists for PhD students in the Department of the History of Medicine in the Johns Hopkins School of Medicine.

Candidates must apply directly to, and be admitted by, the Department of International Health. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the MSPH degree. The MSPH must be relevant to the candidate’s field of doctoral study and must not impede progress in the doctoral program.

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

General Preventive Medicine Residency Program

duration: 2 years
special application requirement: must have completed at least one year of ACGME-approved clinical training (PGY-1) in the U.S. 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 transition al 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) in the U.S. prior 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.

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**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.

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 post-doctoral trainees 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.jhsph.edu/academics/certificate-programs

APPLICATION DEADLINES FOR CERTIFICATES

<table>
<thead>
<tr>
<th>Start Term</th>
<th>App Deadline</th>
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</thead>
<tbody>
<tr>
<td>Summer Institute</td>
<td>April 1</td>
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<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>October 1</td>
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<tr>
<td>Winter Institute</td>
<td>November 1</td>
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<td>Third</td>
<td>December 1</td>
</tr>
<tr>
<td>Fourth</td>
<td>February 1</td>
</tr>
</tbody>
</table>

* Certificate may be completed online
† Certificate is part of the Online Programs for Applied Learning

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
Food Systems, the Environment and Public Health
Gerontology
Global Health*
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 Assistance
Injury and Violence Prevention
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
Training Certificate in Public Health*
Tropical Medicine
Vaccine Science and Policy
Additional Learning Opportunities

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

Institutes in the summer are held in Baltimore. The two-week Winter Institute is held in January with courses available in Baltimore and Washington, 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, 43, 45 and 48 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
Select public health videos and audio

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

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 deadline chart, 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)
- 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 an external, U.S.-based credentials evaluation agency.

For additional guidance, including what evaluations are acceptable, 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

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)
› jhsph.admiss@jhu.edu

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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](http://www.jhsph.edu/admissions/how-to-apply/standardized-test-scores.html)

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](http://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.

**MONITORING YOUR APPLICATION**
After you submit your application, you will receive an e-mail from Admissions Services with a link to your personal page. There you will be able to monitor your application and status throughout the entire application process.

Once you submit your application, you may also monitor its status by logging back into your online application account. However, our school and program requirements exceed those of SOPHAS and SOPHAS Express. For the most accurate information, monitor your status via your personal page.

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

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

**APPLYING TO NON-DEGREE PROGRAMS**

Applying to a Certificate
The application process for certificates varies depending on your student status.

- Find detailed certificate application instructions at [www.jhsph.edu/academics/certificate-programs/how-to-apply](http://www.jhsph.edu/academics/certificate-programs/how-to-apply)

Applying as a “Special Student Limited”
A Special Student Limited is a type of non-degree seeking student interested in taking courses for academic credit. The Bloomberg School allows students to take up to 36 units of credit as a Special Student Limited.


*Students applying to these programs should submit GRE scores and 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 programs.

1 COMLEX may be submitted in lieu of the USLME scores
### 2018-2019 Application Deadlines

#### Doctoral Programs
Please note some programs have final deadlines that extend beyond the dates listed below. Applicants should refer to the department website for the final deadline.

<table>
<thead>
<tr>
<th>Department</th>
<th>Dec 1</th>
<th>Jan 15</th>
<th>Mar 1</th>
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</thead>
<tbody>
<tr>
<td>Biochemistry and Molecular Biology†</td>
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<tr>
<td>Biostatistics</td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td>Environmental Health and Engineering ESEE Track</td>
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<td></td>
<td>X</td>
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<tr>
<td>Environmental Health and Engineering TPMM Track†</td>
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<td>X</td>
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<tr>
<td>Epidemiology</td>
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<td>X</td>
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<tr>
<td>Graduate Training Program in Clinical Investigation</td>
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<td></td>
<td>X</td>
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<tr>
<td>Health, Behavior and Society</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>Health Policy and Management</td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td>International Health</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>Mental Health</td>
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<td>X</td>
<td></td>
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<tr>
<td>Molecular Microbiology and Immunology†</td>
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<td></td>
<td>X</td>
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<tr>
<td>Population, Family and Reproductive Health</td>
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</tbody>
</table>

#### Masters’ Programs
*Programs have final deadlines that extend beyond the dates listed below. Please refer to the department 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>
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<td>X</td>
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<tr>
<td>Biochemistry and Molecular Biology*</td>
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<td>X</td>
<td></td>
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<tr>
<td>Biostatistics</td>
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<td>X</td>
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<tr>
<td>Environmental Health and Engineering Full-time*</td>
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<td>X</td>
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<tr>
<td>Environmental Health and Engineering Online/Part-time MSPH*†</td>
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<td>X</td>
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<tr>
<td>Epidemiology*</td>
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<tr>
<td>Graduate Training Program in Clinical Investigation (GTPCI)</td>
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<tr>
<td>Health, Behavior and Society MHS* and MSPH*</td>
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<td>X</td>
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<tr>
<td>Health, Behavior and Society ScM</td>
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<td>X</td>
<td></td>
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<tr>
<td>Health Policy and Management*</td>
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<td>X</td>
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<tr>
<td>International Health MSPH/RD</td>
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<tr>
<td>International Health MSPH* and MHS*</td>
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<tr>
<td>Mental Health*</td>
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<td></td>
<td>X</td>
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<tr>
<td>Molecular Microbiology and Immunology MHS*</td>
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<td></td>
<td>X</td>
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<tr>
<td>Molecular Microbiology and Immunology ScM</td>
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<tr>
<td>Population, Family and Reproductive Health</td>
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</table>

#### 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 start date of January 2018:
- Environmental Health Online/Part-time MSPH
- Health, Behavior and Society MSPH
The deadline for these programs is October 15 for the January 2018 start date.
## 2018–2019 Academic Calendar

### Summer Institutes
- **Registration Begins for Summer Institute Term**: T Feb 13
- **Registration Ends for Summer Institute Terms**: varies per Institute course
- **Online/Part-Time MPH New Student Orientation**: Su June 3

### Summer Term (39 class days)
- **Registration Begins for Summer Term**: W April 4
- **Registration Ends for Summer Term**: F June 22
- **New MPH Student Orientation/Registration**: Th June 28–F June 29
- **Instruction Begins for Summer Term**: M July 2
- **Independence Day Holiday Recess**: W July 4
- **Add/Drop Period for Summer Term (for full-term courses only)**: M July 2–F July 13
- **Last Class Day of Summer Term**: F Aug 24

### 1st Term (39 class days)
- **Registration Begins for 1st Term for Continuing & Special Students**: F June 1
- **1st Term Registration Ends for Continuing & Special Students**: F Aug 17
- **New Student Orientation/Registration**: T Aug 28–Th Aug 30
- **Labor Day Recess**: M Sep 3
- **Instruction Begins For 1st Term**: T Sep 4
- **Add/Drop Period**: M Sep 3–F Sep 14
- **Last Class Day of 1st Term**: F Oct 26

### 2nd Term (38 class days)
- **Registration Begins for 2nd Term**: F July 20
- **2nd Term Registration Ends**: F Oct 19
- **Instruction Begins For 2nd Term**: M Oct 29
- **Add/Drop Period**: M Oct 29–Su Nov 11
- **Thanksgiving Recess**: Th Nov 22–Su Nov 25
- **Last Class Day of 2nd Term**: F Dec 21

### Winter Intersession
- **Registration Begins for Winter Intersession**: Th Oct 4
- **Winter Intersession Registration Ends**: F Dec 28
- **Add/Drop Period for Winter Intersession**: Varies Per Course
- **Online/Part-Time MPH New Student Orientation**: Su Jan 6
- **Martin Luther King, Jr. Holiday Recess**: M Jan 21

### 3rd Term (39 class days)
- **Registration Begins for 3rd Term**: W Nov 14
- **3rd Term Registration Ends**: F Jan 11
- **Instruction Begins for 3rd Term**: T Jan 22
- **Add/Drop Period**: M Jan 21–F Feb 1
- **Last Class Day of 3rd Term**: F Mar 15
- **Spring Recess**: M Mar 18–F Mar 22

### 4th Term (40 class days)
- **Registration Begins for 4th Term**: W Feb 6
- **4th Term Registration Ends**: F Mar 15
- **Instruction Begins for 4th Term**: M Mar 25
- **Add/Drop Period**: M Mar 25–F Apr 5
- **Last Class Day of 4th Term**: F May 17
- **Public Health Convocation**: T May 21
- **University Commencement**: Th May 23
- **Residency Program Ends**: F June 28
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.

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

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

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

For more information, regarding outside funding for education or research, visit JHSPH Student Funding Resources at www.jhsph.edu/offices-and-services/funding-opportunities

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


Tuition 2017-2018
The following tuition rates and fees are for the 2017-2018 academic year. This information is also available at www.jhsph.edu/admissions/tuition-and-fees.

Doctoral, MAPHB, MBE, MHA, MHS, MPP, MSPH, ScM
full-time, 9-month academic year, 4 terms $52,368
full-time (12+ credits), per term $13,092
part-time $1,091 per credit

Master of Public Health
full-time, 11-month MPH academic year, 5 terms $65,460
full-time (12+ credits), per term $13,092
part-time $1,091 per credit*

* $841 per credit with scholarship, see Welch Scholarship on pg 62

Online Programs for Applied Learning (OPAL)
per credit $1,091
maximum scholarships per credit $419

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

Special Students/Others
full-time (12+ credits), per term $13,092
part-time $1,091 per credit

Estimated Living Expenses
Listed below are the estimated living costs for the 2017-2018 academic year. These costs were developed in compliance with the federal regulations used to determine a single student’s eligibility for federal student aid. The dollar amounts listed below are estimates only; actual costs may vary.

<table>
<thead>
<tr>
<th></th>
<th>9 Months</th>
<th>11 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room</td>
<td>$9,720</td>
<td>$11,880</td>
</tr>
<tr>
<td>Food</td>
<td>$4,185</td>
<td>$5,115</td>
</tr>
<tr>
<td>Transportation</td>
<td>$3,258</td>
<td>$3,982</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$2,000</td>
<td>$2,500</td>
</tr>
<tr>
<td>Insurance</td>
<td>$3,120</td>
<td>$3,744</td>
</tr>
<tr>
<td>Personal</td>
<td>$1,872</td>
<td>$2,288</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$24,115</strong></td>
<td><strong>$29,461</strong></td>
</tr>
</tbody>
</table>
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-attract](http://baltimore.org/see-do/historical-attract)

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

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

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

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

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

**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](http://www.jhsph.edu/student-life)
Community Involvement with SOURCE

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

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

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

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

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

Please continue to explore our academic community!

VISIT US ON THE WEB

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

www.jhsph.edu

Admissions Blog
Take micro campus tours, get application tips and 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
jhsp.h.admiss@jhu.edu
www.jhsph.edu/admissions

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

Disability Support Services
410-502-6602
jhsp.dss@jhu.edu
www.jhsph.edu/offices-and-services/student-affairs/disability-support-services

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

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

Additional Schoolwide Offices
Student Accounts and Business Services
410-955-5725
jhsp.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/

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

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.

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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.