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NONDISCRIMINATION AND DISABILITY POLICIES

Nondiscrimination Policy
Johns Hopkins University is committed to recruiting, supporting, and fostering a diverse community of outstanding faculty, staff, and students. As such, Johns Hopkins does not discriminate on the basis of gender, marital status, pregnancy, race, color, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity or expression, veteran status, or other legally protected characteristic in any student program or activity administered by the university or with regard to admission or employment.

Questions regarding Title VI, Title IX, and Section 504 should be referred to the Office of Institutional Equity, Johns Hopkins University, 130 Garland Hall, Homewood Campus, Telephone: 410-516-8075, (TTY): 410-516-6225. Please note that the Office of Institutional Equity’s Director for Equity Compliance and Education is the Title IX Coordinator for Johns Hopkins University.

Accommodations for Persons with Disabilities
The University provides appropriate, necessary and reasonable accommodations to qualified students, faculty and staff who are disabled.

Visit www.jhsph.edu/student_affairs/disability for complete information on disability support services at the Johns Hopkins Bloomberg School of Public Health, or contact the disability services coordinator at 410-955-3034 or dss@jhsph.edu.
This is an exciting time to be involved in public health. We live in an era in which public health is debated all around us, every day. Big questions emerge constantly: What’s the best way to deliver health care or respond to natural disaster? How will climate change affect health? What can we do to ensure clean, safe water for a planet of seven billion?

Some of the puzzles that we in public health try to solve are fairly recent, such as the obesity and diabetes epidemics. Other quandaries have been around longer. The HIV/AIDS epidemic is three decades old now. Cigarettes have been identified as killers for more than half a century. Malaria has been with us for millions of years.

At the Bloomberg School we nurture scientists, researchers and skilled public health practitioners who are dedicated to finding—and creating—solutions for these problems. Protecting and improving health is what we do, and these endeavors, whether in research or in practice, take many forms. Some of us work to prevent diseases. Some of us strive to influence policy that can correct the social situations that bring on population-wide ill health. Some of us identify disparity and ferret out its root causes, while others of us advise governments on what the evidence shows us to be the best forms of health care and health care delivery. Indeed, some of us do all of these things.

In our laboratories, we use every possible tool to attack diseases. Cutting edge ideas, research and equipment allow us to discover the mechanisms of genes and epigenes, pathogens, and infection itself. In the field, we discover ways to improve health on a population level, in developed and developing nations, in people of every age, ethnicity and status.

As the oldest institution of its kind and the largest school of public health in the world, the Bloomberg School will continue to lead the charge toward better health for everyone. We now serve more than 2,000 students from 87 countries, with nearly 600 full-time faculty. Our scientists conduct ongoing research projects in the United States and in more than 90 other countries. And our more than 20,000 highly trained alumni lead ministries of health, international agencies, research institutes and academic programs throughout the world.

With ten departments, more than 60 centers and institutes, a range of degree programs, and a dedication to both research and practice, we offer our student body the best in public health education. We send our graduates into the world to lead in the global defense of human life.

This Academic Prospectus provides an overview of our departments, describes the Bloomberg School’s degree programs and explains how our students can make an academic journey toward a single, profound goal: to protect health and save lives—millions at a time.

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

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

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

**Students**
2,287 from 87 nations

**Faculty**
597 full-time, 751 part-time

**Alumni**
20,490

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

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

**Highlights**
- First institution of its kind worldwide
- Largest school of public health in the world
- Receives 20 percent of all federal research funds awarded to the 49 accredited U.S. schools of public health
- Consistently rated No. 1 by U.S. News and World Report

For more Bloomberg School facts, flip to “Public Health at Hopkins” on page 5 or visit www.jhsp.h.edu.
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Put simply, public health has a bold mission: “protecting health and 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, almost 100 years ago, the field of public health was smaller. Public health researchers and practitioners focused their work on epidemics, infectious diseases, vaccines, infant survival and similar areas. The field has grown 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.

Here 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
Johns Hopkins was born in 1795 on his family's tobacco plantation in southern Maryland. When he was 12 years old, his parents, observant Quakers, freed their slaves and put Johns and his brother to work in their fields, thus ending his formal education. By the time he was 24, he had established his own mercantile house, and later he invested in the Baltimore and Ohio, the nation's first major railroad. In 1867, Mr. Hopkins arranged for the incorporation of Johns Hopkins University and Johns Hopkins Hospital. When he died in 1873, at age 78, he left $7 million to the two institutions, the largest philanthropic bequest in U.S. history at the time.

Founded in Baltimore in 1876, Johns Hopkins University was the first university in the western hemisphere to be based on a model of the European research institution, where research and the advancement of knowledge are intertwined with teaching. Its establishment began a revolution in U.S. higher education.

Founded in 1916 by William Henry Welch, Johns Hopkins School of Hygiene and Public Health was the first institution of its kind worldwide. In 2001, in honor of Michael Bloomberg for his financial support and commitment, the School's name was changed to the Johns Hopkins Bloomberg School of Public Health. The School is consistently first among all public health schools in federal grants for research support, and is consistently ranked as the nation's #1 school of public health by U.S. News & World Report. The Bloomberg School has a wide reach across the globe, with students hailing from more than 80 nations and research ongoing in more than 90.

Highlights at the Bloomberg School

- 17 faculty members elected to the Institute of Medicine
- 22 Fulbright Scholars in the past six years
- Toxicologist Anna Baetjer was among the first scientists to identify the relationship between occupation and lung cancer, advancing the field of occupational health and environmental toxicology
- Pathologist and School founder William Henry Welch named *Bacillus welchii*, which causes gangrene, and *Plasmodium falciparum*, a malaria parasite
- Immunologists David Bodian, Howard Howe and Isabel Morgan identified three types of poliovirus, laying groundwork that led to the polio vaccine
- Dean Emeritus and alumnus D. A. Henderson led the global eradication of smallpox
- Alumnus Leroy Burney was the first Surgeon General to declare officially that cigarette smoking is one of the causative factors of lung cancer
- 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
- Founding chair of Chemical Hygiene E.V. McCollum discovered vitamins A, B and D
- Dean Emeritus Alfred Sommer proved that vitamin A deficiency dramatically increased childhood morbidity and mortality from infectious disease, spurring programs that have saved millions of children's lives
- Virologist Keerti Shah demonstrated that cervical cancer is linked to the sexually transmitted human papillomavirus, paving the way for diagnostic testing and the eventual vaccine
- Chair of International Health Robert Black demonstrated that zinc supplementation is effective for the prevention and treatment of diarrhea, resulting in a significant reduction in child mortality
- Faculty members Ronald Gray and Maria Wawer demonstrated reduction of HIV transmission by circumcision
- Nobel laureate Peter Agre leads the Johns Hopkins Malaria Research Institute in novel research aimed at reducing and eliminating malaria
The Johns Hopkins Bloomberg School of Public Health offers nine different graduate degrees (six master’s and three doctoral) that will help students hone their skills and become exemplary public health professionals.

Master’s Degrees
- 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)

MASTER’S DEGREES

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 health care organizations and to prepare for tomorrow’s challenges. It is an accelerated, cohort-based program that focuses on the U.S. health care 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 program, see page 26 or visit: www.jhsph.edu/dept/hpm/degrees/mha/health_finance_management.

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 come from a broad range of backgrounds, 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 their content and admissions requirements, interested students should contact their program of interest directly prior to application.

For more information about the MHS, see the appropriate department or visit: www.jhsph.edu/academics/degreeprograms/MHS.html.

Master of Public Health (MPH)
The Schoolwide MPH degree program provides integrated training in the core competencies of the field of public health. MPH training gives public health professionals the knowledge and skills they need from a variety of disciplines to be able 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 also 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 MPH program, see page 41 or visit: www.jhsph.edu/mph/.

Master of Public Policy (MPP)
The MPP offers students a broad look at public policy, formulation, implementation challenges 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 the proposed options and develop skills to evaluate policies during and after implementation.

For more information about the MPP program, see page 27 or visit: www.jhsph.edu/dept/hpm/degrees/mpp.

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, 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 program, see the appropriate department or visit: www.jhsph.edu/academics/degreeprogram/scm.html.

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 directly prior to application.

The MSPH was previously known as the professional MHS.

For more information about the MSPH, see the appropriate department or visit: www.jhsph.edu/academics/degreeprograms/MSPH.html.

DOCTORAL DEGREES

The Doctor of Philosophy (PhD) and Doctor of Science (ScD)
The PhD and ScD degree programs are based within individual departments at the Bloomberg School. The PhD and ScD programs aim to teach methods of evidence-based research that will help improve the health of populations; whether a student’s interest lies in preventing the spread of infectious diseases, influencing healthy behaviors or mitigating the epidemic of violence.

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 PhD and ScD programs, see the appropriate department or visit: www.jhsph.edu/academics/academicprograms/doctoral.

Doctor of Public Health (DrPH)
The DrPH degree 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. The DrPH is offered by several different academic departments. 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 DrPH, see the appropriate department or visit: www.jhsph.edu/academics/degreeprogram/drph.

WHAT DEGREE IS RIGHT FOR ME?

When researching degrees and schools of public health, there are a number of things to keep in mind.

1) It’s important not to get hung up on degree names. An MPH from one school is not the same as an MPH from another. You should evaluate a program’s offerings (duration, field placement, research opportunities, etc.) rather than degree name to determine whether it’s in line with your current experience and future goals.

2) In the same vein, department names also differ from school to school. One school’s Department of Health Behavior and Society is another’s Social and Behavioral Sciences. When comparing departments, review missions, faculty, research and the degrees offered.

3) We encourage applicants, especially doctoral applicants, to browse our faculty and their research interests to ensure our school and resources would be a good match to their interests. Our faculty directory may be found: www.jhsph.edu/faculty/directory/list and searched by research interest here: www.jhsph.edu/faculty/directory/experts.

4) Once you’ve narrowed your interests to a specific department, we encourage you to contact that department’s academic coordinator. The contact information for coordinators at the Bloomberg School may be found at the beginning of each department section in this book. Academic Coordinators can help connect you with current students and faculty.

5) Current students are a great resource. They were in your shoes just a few months ago. Connect with current students through our website http://commprojects.jhsph.edu/communications/students/default.cfm.

6) Visit us!

See page 70 for more ways to stay connected!
Degrees and Departments: A Closer Look

**MPH**

**Schoolwide Program**

**Multidisciplinary Concentrations**

Students may either customize their degree or pursue an optional concentration in one of the following areas:

- Child and Adolescent Health
- Epidemiologic and Biostatistical Methods for Public Health and Clinical Research
- Food, Nutrition and Health
- Global Environmental Sustainability and Health
- Health in Crisis and Humanitarian Assistance
- Health Leadership and Management
- Health Systems and Policy
- Infectious Diseases
- Social and Behavioral Sciences in Public Health
- Women’s and Reproductive Health

**MHA**

**Health Policy and Management**

- Health Administration

**MPP**

**Health Policy and Management**

- Public Policy

**MSPH**

**Environmental Health Sciences**

- Occupational and Environmental Hygiene

**Health, Behavior and Society**

- Health Education and Health Communication

**Health Policy and Management**

- Health Policy

**International Health**

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

**Population, Family and Reproductive Health**

- Child and Adolescent Health and Development
- Population and Health
- Reproductive, Perinatal and Women’s Health

**MPH**

**Biochemistry and Molecular Biology**

- Reproductive and Cancer Biology

**Biostatistics**

- Biostatistics

**Environmental Health Sciences**

- Environmental Health

**Epidemiology**

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

**Graduate Training Programs in Clinical Investigation**

- Clinical Investigation

**Health, Behavior and Society**

- Social Factors in Health

**Health Policy and Management**

- Health Economics

**International Health**

- Health Economics

**Mental Health**

- Mental Health

**Molecular Microbiology and Immunology**

- Molecular Microbiology and Immunology

**Population, Family and Reproductive Health**

- Child and Adolescent Health and Development
- Demography
- Reproductive, Perinatal and Women’s Health

**MHS**

**Biochemistry and Molecular Biology**

- Reproductive and Cancer Biology

**Biostatistics**

- Biostatistics

**Environmental Health Sciences**

- Environmental Health

**Epidemiology**

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

**Graduate Training Programs in Clinical Investigation**

- Clinical Investigation

**Health, Behavior and Society**

- Genetic Counseling

**Molecular Microbiology and Immunology**

- Molecular Microbiology and Immunology

**ScM**

**Biochemistry and Molecular Biology**

- Reproductive and Cancer Biology

**Biostatistics**

- Biostatistics

**Environmental Health Sciences**

- Environmental Health

**Epidemiology**

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

**Graduate Training Programs in Clinical Investigation**

- Clinical Investigation

**Health, Behavior and Society**

- Genetic Counseling

**Molecular Microbiology and Immunology**

- Molecular Microbiology and Immunology
### PhD

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

**Biostatistics**
- Biostatistics

**Environmental Health Sciences**
- Environmental Health Engineering*
- Molecular and Translational Toxicology*
- Occupational and Environmental Health*
- Respiratory Biology and Lung Disease*

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

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

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

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

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

**Mental Health**
- Mental Health

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

**Population, Family and Reproductive Health**
- Child and Adolescent Health and Development
- Population and Health
- Reproductive, Perinatal and Women’s Health

### ScD

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

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

### DrPH

**Environmental Health Sciences**
- Environmental Health

**Epidemiology**
- Epidemiology

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

**Health Policy and Management**
- Health Care Management and Leadership

**International Health**
- International Health

**Mental Health**
- Mental Health

**Population, Family and Reproductive Health**
- Child and Adolescent Health and Development
- Population and Health
- Reproductive, Perinatal and Women’s Health

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

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

*For more information regarding combined programs, flip to page 48 or visit [www.jhsph.edu/academics/academicprograms/combined_programs](http://www.jhsph.edu/academics/academicprograms/combined_programs).

*The Departments of Biochemistry and Molecular Biology, Environmental Health Sciences, Epidemiology, and Molecular Microbiology and Immunology offer an interdepartmental degree in molecular epidemiology that leads to both a PhD and ScM degree.

**Applicants may not matriculate directly into the ScM degree.**
Biochemistry and Molecular Biology is the study of molecular and genetic bases of cellular processes. Our faculty conducts research to increase current knowledge of the biochemical and molecular mechanisms of normal and abnormal cellular processes.

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

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

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

**DEGREE PROGRAMS**

**MHS in Reproductive and Cancer Biology**

*duration: 1 year**

*application deadline: June 1*

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

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

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

**ScM in Reproductive and Cancer Biology**

*duration: 2 years**

*application deadline: June 1*

The ScM in Reproductive and Cancer Biology is a research-based program requiring nine months (one academic year) of coursework, the completion of original research under the guidance of a faculty mentor, and the writing of a research-based thesis.
ScM students are admitted initially into the MHS program described above. In the third term, MHS students with an interest in research may request transfer to the ScM program. Approval is contingent upon the student identifying a research mentor and the agreement of the faculty. ScM students conduct original research during their second year, which continues until the satisfactory completion of the ScM thesis. Typically, ScM students present their findings at national meetings and publish their results in peer-reviewed journals.

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

**PhD in Biochemistry and Molecular Biology**

duration: 5 years**

application deadline: December 15

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

In their first year, PhD students complete required coursework, participate in laboratory rotations and choose a thesis adviser. In their second year, students pursue courses in one of seven specialty areas:

- Biochemical Nutrition
- Bioinformatics
- Bioorganic Chemistry
- Biophysics
- Genetics
- Structural Biology
- Cellular and Molecular Biology
- Enzymology
- Reproductive Biology

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

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

Matt Beattie, a PhD candidate from Syracuse, New York, studies under the Department of Biochemistry and Molecular Biology. The Bloomberg School of Public Health appealed to Matt because of the ability to study biochemistry in the unique setting of public health. The world renowned reputation of Johns Hopkins for top notch science and research simplified his decision. Matt’s current research is attempting to define aging, specifically why aged men make less testosterone than young men. He is trying to understand, in this system, what causes old cells to function differently than young cells of the same type (that is, produce much less testosterone). The redox environment is of particular interest relating to how these young and old cells are able to handle stresses both from exogenous sources, and from within. Perhaps Matt’s research will give us insights into the broad world of molecular aging and help us stay healthy into our twilight years.

Matt Beattie
PhD Candidate
Biochemistry and Molecular Biology

For more information regarding application requirements, flip to “How to Apply” on page 62 or visit 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 resources, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.
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**

**MHS in Biostatistics**

**duration: 1 year**

**special application requirement:** must already have advanced degree in health science (e.g. MD or PhD)

**application deadline: Feb 1**

The MHS in Biostatistics is intended for outstanding individuals with prior professional experience or a professional degree (e.g. MD or PhD) seeking a one-year intensive course of study in biostatistical theory and methods. 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.

**ScM in Biostatistics**

**duration: 2 years**

**application deadline: Feb 1**

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

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

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

ScM graduates assume positions in research or professional settings as scientific project coordinators and data analysts where they may design research studies of human health and disease; design and implement 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.
**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.

For more information regarding application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

**ADDITIONAL EDUCATIONAL OPPORTUNITIES**

**Concurrent Doctoral Degree/ MHS in Biostatistics**

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

**ALUMNI SPOTLIGHT**

Jeff Goldsmith is a Biostatistics PhD graduate from Sherman, Texas. When Jeff first thought of graduate school, he had never heard of public health. He received a recruiter’s email encouraging students with an interest in math to consider biostatistics. In researching the field, he realized biostatistics was a way he could use something he was good at to solve real world problems.

Jeff’s work at the Bloomberg School focused on neuroimaging. He examined brain scan data to determine disease progression in multiple sclerosis patients. Brain scan information can be hard to come by, but through the Department of Biostatistics, Jeff collaborated with the National Institutes of Health and Johns Hopkins Hospital to access a treasure trove of data. Jeff hoped that his work would lead to a better understanding of multiple sclerosis and, ultimately, to better patient care.

Jeff has accepted a position as Assistant Professor of Biostatistics at Columbia University.

**DEPARTMENTAL FUNDING**

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

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

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.
The Department of Environmental Health Sciences (EHS) is a dynamic group of faculty and students exploring the impact of chemical, biological, and physical agents on human health. We work to discover the sources and distribution of these agents; understand individual response at the molecular, cellular, organ, and whole-body levels; assess environmental risk and devise prevention and intervention strategies.

Current thinking on the environment and health has propelled us to consider how the built environment and the social environment influence human health beyond the traditional focus on hazardous agents. We are also pursuing the health effects of global environmental change, including global warming, persistent organic pollutants, and ecosystems change.

Students in EHS come from diverse backgrounds and grow to appreciate the effects of the natural, built, and social environments on health. Our broad, multidisciplinary approach creates a collaborative and supportive learning atmosphere for every student, while assisting them in developing lifetime careers in public health.

DEGREE PROGRAMS

MHS in Environmental Health

duration: 1 year**

application deadline: June 1

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

The three tracks are:

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

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

**The time it takes to complete a degree may vary by student and circumstances.
**MSPH in Occupational and Environmental Hygiene**

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

**application deadline: June 1**

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

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

The full-time 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. The part-time/Internet-based program is under review for ABET accreditation as of Summer 2012.

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

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

**BA/MHS or BA/MSPH**

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

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

**application deadline: July 1 between junior and senior undergraduate years**

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

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

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

**PhD in Environmental Health Engineering**

**duration: 5 years**

**application deadline: Dec 15 (priority)**

Researchers in the Environmental Health Engineering program seek to minimize the adverse effects of exposure to physical, chemical and biological agents by identifying and studying their sources, fate and transport in both occupational and non-occupational environments. Researchers also develop and evaluate risk management strategies that effectively protect human health.

Exposure assessment and risk management are integrating themes within the environmental health engineering program. Research and training in exposure and risk assessment employs principles and methods in chemistry, biology and physics, and includes the development and evaluation of biomarkers of exposure.

Applicants for research training should have a strong background in the physical, chemical and biological sciences, including college-level physics and calculus.

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

**PhD in Molecular and Translational Toxicology**

**duration: 5 years**

**application deadline: Dec 15 (priority)**

This program emphasizes advanced training and research on the molecular, biochemical, pathobiological, and physiological mechanisms through which environmental chemical, physical, and biological agents cause human disease. Training and research are done by employing laboratory-based and clinical and population-based studies.
Students conduct mechanistic and translational research on: the causes of breast, liver, lung and prostate cancer, inflammatory processes in cardiomyopathy, signal pathway disruption in cardiac hypertrophy, chronic obstructive pulmonary disease (COPD), autoimmunity, neurodevelopmental disorders and identification of pathways of toxicity.

Seminars, journal clubs and research retreats are an integral part of the student experience. Students also present their research at various national and international scientific conferences and routinely receive awards for their presentations at the annual Society of Toxicology meetings and other annual meetings.

Graduates of this program pursue careers in academic, government, not-for-profit and private sector institutions. These include research, teaching, public service, product safety evaluation, regulatory affairs and such specialty areas as, chemical carcinogenesis, reproductive and developmental immunotoxicology, inhalation toxicology, and risk assessment.

PhD in Occupational and Environmental Health
duration: 5 years**
application deadline: Dec 15 (priority)
Occupational and Environmental Health scientists prevent disease and injury related to occupational and environmental stressors and promote health among individuals and populations through research, professional practice, and teaching.

The department offers formal training in occupational and environmental health, with particular strength in the areas of the application of biomarkers of exposure, dose, and susceptibility; molecular, occupational, and environmental epidemiology; and occupational and environmental policy and management.

Occupational and environmental health faculty members are engaged in a wide range of research projects, primarily in human research studies utilizing epidemiological methods, often with a focus on disease etiology and causal pathways.

The doctoral program in Occupational and Environmental Health prepares students for academic careers in teaching and research. Students in this program show an interest in human studies, biology, epidemiology, policy management, and social and built environments.

Graduates are prepared to enter research, teaching or regulatory careers in several venues including: academics, research institutes, governmental health agencies and international health organizations.

PhD in Respiratory Biology and Lung Disease
duration: 5 years**
application deadline: Dec 15 (priority)
The lung is the major target organ for environmental air pollution, and lung disease is a major international public health problem. Research in this program leads to competency in at least one of several domains focused on pulmonary pathophysiology (especially asthma and COPD), including altered immunologic defenses, genetic susceptibility, and the effects of toxic gases and particles.

Students develop knowledge and expertise in areas that enable them to first understand normal and pathologic structure and function in humans and animal models. This is then applied to study genetic and environmental factors underlying various lung diseases, often using systems physiologic approaches. Training in writing scientific papers and grant proposals is also a major goal. The research carried out by graduate students has a primary focus on understanding how and why lung diseases occur and how they might be treated.

Students in this program come from a wide spectrum of backgrounds including, biology, physiology, toxicology, chemistry, biomedical engineering or pharmacology. Graduates of the program have obtained positions in academia, research and government.

DrPH in Environmental Health
duration:
• full-time program, up to 7 years**
• part-time program, up to 9 years**
special application requirement:
must have an MPH or equivalent degree
application deadline: Dec 15 (priority)
The DrPH degree emphasizes the application of in-depth public health knowledge to problem solving and the development of skills necessary to assess and solve the needs for occupational and environmental health challenges at regional, national and international levels.

The typical DrPH student holds an MPH or its equivalent and has been working as a public health practitioner for two or more years. Many pursue their studies part-time, and maintain an active public health practice through their work. Students develop the skills to: analyze and assess complex environmental risks and problems and to design and implement intervention strategies that reduce risks and resolve environmental problems.

DrPH graduates in EHS transform cutting edge environmental health science into public health interventions. Graduates are active throughout the world in diverse activities.
settings in federal and state agencies as well as private sector companies, foundations, consulting businesses, hospitals and academia.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit 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 EHS faculty with whom they wish to work and correspond directly with him/her. They become postdoctoral students in the program after confirming position availability with the faculty member, submitting a formal application to the program and receiving an official appointment letter.

Certificates
The Department of Environmental Health Sciences offers the following certificate programs:

- Certificate in Environmental and Occupational Health
- Certificate in Health and Human Rights
- Certificate in Humane Sciences and Toxicology Policy

For more information regarding certificates, flip to page 53 or visit www.jhsph.edu/academics/programs/certificates.

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

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

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

STUDENT SPOTLIGHT

Christina DeStefano-Shields graduated with a B.S. in Biochemistry and Molecular Biology from the University of Georgia and then worked as a research assistant at the University of California Berkeley and Davis campuses. She was interested in research that would combine molecular mechanisms of toxicants, understanding toxicants in the environment, and translation of this research to improve human and environmental health.

Christina joined the EHS Toxicology PhD program because of its emphasis on an integrative approach that encourages students to pursue not only basic toxicology research but to combine laboratory research with translational studies and broad public health discourse.

Christina’s thesis projects in the laboratory of Professor Robert Casero attempt to define some of the specific pathways connecting chronic inflammation and carcinogenesis and find potential targets for chemoprevention and chemotherapy.

Besides classes and laboratory research, she says that EHS has provided many opportunities for educational and professional development, including serving as a teaching assistant and being elected as the representative for toxicology in the Environmental Health Sciences Student Organization (EHSSO), which provides both social and educational opportunities for students and postdocs.

Her research in Professor Casero’s lab also led Christina to be asked to chair the 2011 Polyamines Gordon Research Seminar (GRS), an international scientific meeting for graduate students and postdocs sponsored by the renowned Gordon Research Conference (GRC) organization.

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

The department offers a broad selection of educational and research programs. These include infectious and chronic diseases encompassing cardiovascular and 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 students and faculty engage in discussion on their current or planned research.

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

**DEGREE PROGRAMS**

**MHS and ScM**

duration: 2 years**

application deadline: Feb 1

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

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

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

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

The department will consider JHU undergraduates majoring in public health studies for admission to the BA/MHS program. Admitted students must complete the BA degree before formally enrolling in the 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.

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 preliminary oral exams, present their proposed research to their research group and the department, attend a professional conference, and write and publicly defend an independent research project for their thesis.

Graduates of the PhD and ScD programs go on to work in health departments, health agencies and in academic research institutions.

MHS, ScM, PhD and ScD Concentrations

www.jhsph.edu/dept/epi/concentrations

Cancer Epidemiology

Cancer Epidemiology aims to train future epidemiologists to investigate the causes of cancer, including host and environmental factors in human populations. The strategies for cancer prevention and control in the general population and within disproportionately affected population include providing a better understanding of cancer-related behaviors, identifying new markers for the early detection of cancer, providing a better understanding of cancer-related health disparities and identifying and addressing barriers to care.

Cardiovascular Disease Epidemiology

The Cardiovascular Disease Epidemiology concentration aims to develop creative and independent investigators who will be able to collaborate effectively with bench and applied scientists to improve cardiovascular disease prevention and treatment at both the clinical and population levels.

Clinical Epidemiology

The Clinical Epidemiology concentration focuses on the use of strong epidemiologic methods for clinical and translational research. This concentration is geared toward both clinicians who seek to acquire strong methodologic skills in study design and epidemiology as well as non-clinicians who seek to apply strong epidemiologic knowledge and skills to clinical problems in their future career. This concentration is closely linked to the Welch Center for Prevention, Epidemiology and Clinical Research, a research center of both the School of Public Health and the School of Medicine.

Clinical Trials

The Center for Clinical Trials is a multi-departmental, multidisciplinary center housed in the Department of Epidemiology. Created as a collaborative effort of the School of Public Health and the School of Medicine, the center is devoted to the promotion of clinical trials to evaluate preventive, therapeutic and diagnostic health interventions.

Epidemiology of Aging

This concentration provides advanced training in the conceptual and methodological frameworks that form a basis for studies of older populations, as well as clinical issues relevant to older adults that are of utmost public health importance. Intended for students who wish to conduct population- and/or patient-based epidemiologic research in older adults, the concentration is affiliated with the Center on Aging and Health, a multidisciplinary, cross-school research center.

STUDENT SPOTLIGHT

As an undergraduate studying Microbiology at Pennsylvania State University, it was Kate Grabowski’s semester abroad in South Africa that led her to study public health. Her time abroad sparked a desire to translate the lab skills she acquired as an undergraduate to a larger audience. In 2005, Kate came to the Johns Hopkins Bloomberg School of Public Health as student in the Department of Epidemiology, and received her Master of Science in 2007. The outstanding faculty and the international research projects in infectious disease epidemiology drew Kate to study at Johns Hopkins. As she puts it, “I think they are unparalleled.” After two years conducting research on HIV in Rwanda, Kate returned to Hopkins in 2009 as a PhD candidate in the Epidemiology Department’s Infectious Disease area of concentration. Kate’s doctoral research examines spatiotemporal transmission of HIV in forty-three communities in Rakai, Uganda. Her passion for public health extends beyond the classroom; as a master’s student, Kate helped found Hopkins HEAL (Health Education Across Languages) which helps to provide health education workshops for immigrants and refugees living in the greater Baltimore area. Upon completion of her doctoral work, Kate hopes to continue research on HIV prevention and transmission dynamics in an academic or non-profit setting.

Kate Grabowski
PhD Candidate
Epidemiology
General Epidemiology and Methodology
The General Epidemiology and Methodology concentration exists to allow individuals interested in careers as generalists to receive the broad-based training necessary. This concentration provides students a solid foundational knowledge in epidemiologic and statistical methods and a clear understanding of general principles of the dynamics of health and disease in human populations. Students interested in pharmaco-epidemiology or in social epidemiology also find a home here.

Genetic Epidemiology
Genetic Epidemiology provides students with a solid background in human genetics and a comprehensive introduction to study designs and statistical approaches used in genetic epidemiology. These include assessment of heritability, segregation analysis and association analyses of genetic polymorphisms, their interactions, and the interaction of genes and environments in both population and family based studies.

Infectious Disease Epidemiology
Infectious Disease Epidemiology aims to build upon the core epidemiology curriculum to develop the requisite knowledge of the epidemiology, analytical and laboratory methodology, immunology and pathogen biology necessary to understand the interactions of infectious agents and their hosts, vectors, and environment. Faculty and students consider how best to identify and measure infections, understand transmission dynamics, and develop and assess prevention and treatment programs for emerging and established infectious diseases such as HIV/AIDS, hepatitis C virus, human papillomavirus, malaria, measles, tuberculosis, influenza and dengue hemorrhagic fever.

Environmental Epidemiology
Environmental Epidemiology examines the epidemiology of diseases associated with industrial and other occupational exposures as well as environmentally induced illness in general populations. Faculty and students are currently exploring gene-environment interactions in cancer research, effects of air pollution, risks from radiation and the occurrence of asthma in selected childhood populations and reproductive effects from environmental exposures. Other faculty and students in the department examine the science of risk assessment and the effects of tobacco on specific populations.

DrPH in Epidemiology
The DrPH is a Schoolwide advanced professional degree designed for the student who intends to pursue a leadership career as a public health professional. The DrPH in Epidemiology is offered on a full- or part-time basis. The part-time DrPH requires a prior or concurrent full-time year of coursework at Johns Hopkins. Applicants are expected to develop research in one of the areas listed above and customize their programs based on their professional goals. Graduates of the DrPH program work in health departments, and state and federal health agencies. Many often return to the work they did prior to entering the program.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

Additional Educational Opportunities
The department offers the following certificate programs:
- Certificate in Healthcare Epidemiology and Infection Prevention and Control
- Certificate in Risk Sciences and Public Policy
- Certificate in Gerontology

For more information regarding certificates, flip to page 53 or visit www.jhsph.edu/academics/programs/certificates.

Departmental Funding
The Department of Epidemiology is committed to helping students pay for their graduate education. However, 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 (and 64 credits) and who have passed the written comprehensive exams. The MTS covers four terms only and is only awarded when students have registered for a minimum of 12 credits per term. Training grants, programs and endowments provide some financial assistance for those master’s and doctoral students who obtain them.

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

† 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.
### Graduate Training Program in Clinical Investigation

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

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

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

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

### Degree Programs

#### MHS in Clinical Investigation
- **duration:** 1 year**
- **application deadline:** Mar 1

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

#### PhD in Clinical Investigation
- **duration:** 4 years**
- **application deadline:** Mar 1

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

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

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

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**Director**
N. Franklin Adkinson, Jr., MD

**Associate Director**
Charles W. Flexner, MD

**Academic Program Manager**
Cristina A. DeNardo, M.Ed
410-502-9734
gtpci@jhsph.edu

**Academic Coordinator**
TBA

**Degree Programs**
- Master of Health Science (MHS) in Clinical Investigation
- Doctor of Philosophy (PhD) in Clinical Investigation

[www.jhsph.edu/gtpci](http://www.jhsph.edu/gtpci)
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.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

ADDITIONAL EDUCATIONAL OPPORTUNITIES
The program offers an advanced training curriculum in clinical investigation.

DEPARTMENTAL FUNDING
GTPCI is one of 60 national recipients of an NIH-sponsored CTSA KL2 Award to support institutional career development programs for physicians and dentists, encouraging them to become independent, patient-oriented clinical investigators. This Multidisciplinary Clinical Research Career Development Program funds clinical research training for a broad group of physicians, dentists and other scientists who have a doctorate in a health-related field, including pharmacy, nursing, epidemiology and behavioral sciences.

The Johns Hopkins KL2 program will provide career development support for postdoctoral and junior faculty physicians or dentists from within Johns Hopkins Medical Institutions. Visit www.jhsph.edu/gtpci for details.

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

STUDENT SPOTLIGHT

Maunank Shah is going up against one of the most vexing infectious disease problems: the parallel epidemics of HIV and tuberculosis.

To attack this double-whammy of infectious disease, which is especially widespread in developing countries, early and rapid diagnosis is critical, but available tests are inadequate and often result in sometimes-deadly treatment delays, Shah says.

Guided by a longstanding interest in diagnostics, he aims to bring his clinical and research skills to bear in the effort to slow the spread of these infectious diseases.

At medical school, he developed new diagnostic tools for psychopharmacology research. And as a resident he studied a large cohort of hemophiliacs, using real-time polymerase chain reaction (PCR) techniques to identify previously unrecognized mixed genotypic infections.

During his time as an infectious disease fellow at Johns Hopkins, he worked in South Africa, a country with a high prevalence of HIV and TB, to complete a clinical research study of the new urine Lipoarabinomannan (LAM)-ELISA test. This novel tool allows for rapid detection of active TB and demonstrated high sensitivity among HIV patients, a population in whom existing diagnostic techniques work very poorly.

Moving forward, Shah continues to evaluate the accuracy, cost-effectiveness and utility of new tools to diagnose TB in resource-constrained settings.

“The burgeoning HIV epidemic has potentiated the burden of tuberculosis with grave consequences,” says Shah. “Newer strategies will be a crucial component to the eradication of tuberculosis in high prevalence areas.”
The Department of Health, Behavior and Society is dedicated to research and training that advance scientific understanding of the impact of the societal context and behavior on health.

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

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

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

**DEGREE PROGRAMS**

**MHS in Social Factors in Health**

duration: 1.5 to 2 years**

application deadline: Feb 15

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

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

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

**ScM in Genetic Counseling**

duration: 2.5 years**

application deadline: Jan 2

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

The curriculum consists of coursework in the areas of human genetics, genetic counseling, health education, communication, ethics, public policy and research methodology. The program also requires a minimum of 400 contact hours of supervised clinical rotations and a thesis project.

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 2

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

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

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

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

PhD or ScD 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.

DrPH in Social and Behavioral Sciences

duration: 5 years**
special application requirement: must have an MPH or equivalent degree
application deadline: Dec 1

The DrPH is an advanced professional degree program designed for the student who has an MPH or equivalent degree and who intends to pursue a leadership career in the professional practice of public health.

The focus of the DrPH program is on integrating and applying knowledge and skills in leadership, practice, policy analysis, program and budget management, and communication, with an emphasis on the application of behavioral and social science perspectives to contemporary health problems. In addition to coursework, students complete a written exam and a mentored practicum tailored to student interests. With faculty guidance, students develop and present a dissertation protocol in an oral exam. The final dissertation defense is conducted as an oral exam that includes a public presentation of results.

Graduates of the DrPH program are expected to take on leadership roles in the private and public sector as well as in academic institutions.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.
**Additional Educational Opportunities**

The department offers the following certificate programs:

- Community-Based Public Health Certificate
- Global Tobacco Control Certificate
- Health Communication Certificate
- Health Education Certificate

For more information regarding certificates, flip to page 53 or visit www.jhsp.h.edu/academics/programs/certificates.

**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 68 or visit www.jhsp.h.edu/admissions/financial-aid.

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**Faculty Spotlight**

Dr. Jernigan is the director of the Center on Alcohol Marketing and Youth, and in that capacity pioneers new ways to survey the levels of risk young people face when exposed to alcohol advertising. His career focus has been on public health practice with a special interest in alcohol policy and media advocacy. He has served as an adviser to the World Bank and the World Health Organization (WHO) and was the principal author of WHO’s first Global Status Report on Alcohol and Global Status Report on Alcohol and Youth, and co-author of Media Advocacy and Public Health: Power for Prevention and Alcohol in the Developing World: A Public Health Perspective, published by WHO and the Finnish Foundation for Alcohol Studies. Dr. Jernigan has trained thousands of students and public health advocates in media advocacy and alcohol-problems prevention. The Bloomberg School of Public Health has awarded Dr. Jernigan the Exceptional Teacher honor in 2008-09 and 2009-10 for his courses on media advocacy and public health, alcohol policy, and social and behavioral aspects of health. He was also the recipient of the National Association of State Alcohol and Drug Abuse Directors (NASADAD) 2010 Award of Excellence. He received his doctorate in sociology from the University of California for a dissertation on the globalization on alcohol as a mass consumer product, based on field research on alcohol marketing in Malaysia, Zimbabwe and Estonia.
The mission of Health Policy and Management is to advance the public’s health through the development, implementation and evaluation of effective health and social policies. The department emphasizes the importance of sound management and creative leadership in finding effective and equitable solutions. The department’s commitment to this mission is realized through advancing research, education and practice in the following areas: Health Services Research and Policy—addressing the organization, financing and delivery of both curative and preventive services, and their impact on access, quality, outcomes and cost, particularly for the most vulnerable; Health and Public Policy—addressing the development, implementation and evaluation of public policies to prevent disease and injury and to promote the health and quality of life of populations; Health Economics and Policy—addressing the concepts and methods of economic analysis to study how clinical and public health resources are and should be allocated; Bioethics and Health Policy—addressing research and policy related to the ethics of public health practice, health policies, and public health research; and Leadership and Management—addressing the challenges faced by health organizations in today’s rapidly changing environment.

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

**DEGREE PROGRAMS**

**MHA**

*duration: 2 years**

*application deadline: Feb 1*

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

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

Program Contact: Teresa Schwartz, MS, tschwart@jhsph.edu.

**MHS in Health Economics**

*duration: 1 year**

*application deadline: Mar 1*

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

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

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

Program Contacts: Christine King, Health Policy and Management, chking@jhsph.edu or Cristina Salazar, International health, csalazar@jhsph.edu.

MPP
duration: 2 years**
application deadline: Feb 1

The MPP is a multidisciplinary degree that equips students with the critical skills required to analyze public problems and policy choices, formulate implementing mechanisms, and evaluate the results. The curriculum blends analytic perspectives from statistics, economics, sociology, political science, and philosophy into a coherent discipline, which students then apply to substantive fields of policy. The program strikes a balance between quantitative and qualitative approaches to the analysis of policy problems, and explicitly considers the ethical and value dimensions inherent in making policy choices and the collaborative nature of policy implementation involving both governmental and nongovernmental factors.

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

Program Contact: Carey Borkoski, PhD, cborkosk@jhsph.edu.

MSPH in Health Policy
duration: 2 years**
application deadline: Feb 1

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

The program requires one year of academic coursework, followed by a nine-month field placement of full-time employment in a professional health policy setting. The course curriculum and field placement experience provide students with a rich understanding of U.S. health policy, knowledge of the processes by which public policy decisions are made, training in basic quantitative and analytic methods, and the skills needed to critically assess and apply research findings to the development and analysis of health policy. The curriculum offers adequate flexibility to allow students to pursue their individual interests in the health policy arena.

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

Program Contact: Christine King, MSEd, chking@jhsph.edu.

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

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

Standardized test scores are not required for admission review provided that a minimum GPA of 3.3 in the public health core is reached. The test scores may be required for master’s matriculation if satisfactory academic progress is not maintained in Bloomberg School courses taken during
the senior year. The application fee for BA/MSPH applicants is waived.

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

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

Program Contact: Christine King, MSEd, chkimg@jhsphs.edu.

**PhD**

**duration: 4 to 6 years**

**application deadline: Dec 1**

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

**Bioethics and Health Policy**

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

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

**Health Economics and Policy**

The PhD in Health Economics and Policy prepares doctoral students to conduct innovative and rigorous research on various issues related to health and health care – such as the behavior of patients, providers, and insurers and the cost-effectiveness of various technologies. The PhD program's curriculum is grounded in applied microeconomic theory, economic evaluation, and applied econometrics, but it offers a choice between two concentrations. The Applied Economics concentration focuses on econometric analyses of hypotheses generated by economic theory and incorporates PhD coursework from the A&S Economics Department. The Economic Evaluation concentration focuses on state-of-the-art methods for evaluating the effectiveness of various interventions.

**Health Services Research and Policy**

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

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

**Health and Public Policy**

Finding solutions to public health problems through the development, analysis, implementation, and evaluation of health policies is the focus of the PhD program in Health and Public Policy. Public policy is viewed in its broadest sense and includes strategies that address health through political, social and administrative institutions as well as law, corporate actions, and the role of scientific discovery. Students in this program examine some of the most challenging public health issues of the day and learn how to translate their understanding of the risk factors underlying those challenges into policy solutions. Students also engage in policy evaluations to assess the impact of public policies on disease and injury. Faculty employ an interdisciplinary approach to their teaching and research which is reflected by their backgrounds in medicine, epidemiology, public health practice, social and political science, law, and environmental health and the risk sciences.

**DrPH in Health Care Management and Leadership**

**duration: 6 to 8 years**

**special application requirement:** must have an MPH or equivalent degree

**application deadline: Dec 1**

The focus of the DrPH program is on measuring, monitoring and improving the clinical and financial performance of health services organizations, as well as training leaders for organizational change. The program curriculum is based on the Malcolm Baldrige Health Care Criteria for Performance Excellence framework.

This part-time program is principally designed for students working full-time who have completed Master's level training related to health care management prior to starting the doctoral program. It is expected that students will complete the required coursework over a four-year period followed by the written comprehensive and oral examinations which are completed prior to beginning substantive work on the dissertation. It is possible to complete the degree within a six-year period although students will have up to nine years, if needed, to complete the program requirements.

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

Program Contact: Lilly Engineer MD, DrPH, MHA, lenginee@jhsph.edu.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

ADDITIONAL EDUCATIONAL OPPORTUNITIES

Certificates
The department offers the following certificate programs:

• Certificate in Health Finance and Management
• Certificate in Injury Control
• Certificate in Public Health Preparedness
• Certificate in Health Disparities and Health Inequalities
• Certificate in Bioethics and Health Policy
• Certificate in Gerontology
• Certificate in Public Health Informatics
• Certificate in Public Health Economics
• Certificate in Quality, Patient Safety and Outcomes Research
• Certificate in Risk Sciences and Public Policy

For further information on institute offerings, visit www.jhsph.edu/dept/hpm.

DEPARTMENTAL FUNDING

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

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

For more information regarding certificates, flip to page 53 or visit www.jhsph.edu/academics/programs/certificates.

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

For further information on institute offerings, visit www.jhsph.edu/dept/hpm.

Doctoral Programs
The department offers a limited number of NIH-sponsored predoctoral fellowship opportunities for U.S. citizens and permanent residents. Note that predoctoral designation is limited to those candidates without doctoral degrees who are applying to the full-time PhD or DrPH degree programs. These positions include tuition and stipend support for candidates in the areas of health services research, violence research and occupational injury control. Applicants interested in being considered for one of these training grant opportunities should discuss their interest within their application statement. In addition, a limited number of departmental scholarships, also providing tuition and stipend support, are available. No special application for funding is required for consideration. Applicants are also strongly encouraged to review the eligibility criteria for the Bloomberg School’s Brown Scholars Programs.

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

STUDENT SPOTLIGHT

Every year, between 44,000 and 98,000 American hospital patients die because of medical errors. Heon-Jae Jeong, a Sommer Scholar and DrPH candidate in the Department of Health Policy and Management, travels throughout the U.S. and Asia to speak at hospitals and academic conferences about the importance of patient safety. Talking about the errors, he says, is essential to their prevention.

Jeong considers medical error a disease needing treatment and prevention. He encourages hospitals to analyze error data to find patterns and identify causes and contributing factors. Jeong is careful to stress that his goal is never to place blame on any single care provider. His targets are the systems and cultures of hospitals that allow errors to occur. “What we have to do is find the mechanism of the error.”

While at the Bloomberg School, Jeong has worked with renowned patient safety expert Peter Pronovost, who founded the Johns Hopkins Quality and Safety Research Group, and many other mentors who convinced him he could create change in the world.

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

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

**DEGREE PROGRAMS**

**MHS in Health Economics**

duration: 1 year**

application deadline: Mar 1

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

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

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

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

**Department Chair**
Robert E. Black, MD, MPH

**Academic Program Manager**
Cristina G. Salazar
410-955-3734
IHinfo@jhsph.edu

**Degree Programs**

Master of Health Science (MHS) in Health Economics

Master of Science in Public Health (MSPH) in
- Global Disease Epidemiology and Control
- Health Systems
- Human Nutrition
- Social and Behavioral Interventions

Master of Arts (MA)/Master of Science in Public Health (MSPH) (with SAIS)

Master of Science in Public Health (MSPH)/Master's International (with Peace Corps)

Master of Science in Public Health (MSPH)/Registered Dietitian (RD)

Doctor of Philosophy (PhD) in
- Global Disease Epidemiology and Control
- Health Systems
- Human Nutrition
- Social and Behavioral Interventions

Doctor of Public Health (DrPH) in International Health

www.jhsph.edu/dept/ih

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

duration: 1.5 to 2 years**
application deadline: Jan 2 (priority)

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

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

Program requirements consist of a minimum of four academic terms of 64 credits of coursework followed by a comprehensive exam, a practicum in which at least 32 credits are earned and an essay. The practicum can be a full-time activity of four months in duration or a part-time effort extending over a period of up to 12 months. MSPH graduates may pursue a doctoral or medical degree, or may work for non-profit, non-government public health organizations.

MA/MSPH

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

For more information regarding the MA/MSPH, flip to page 48 or visit www.jhsp.h.edu/dept/ih/globalhealthdegrees/msph/ma-msph.html.

Peace Corps Master’s International Program

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

For more information regarding the MSPH/Peace Corps program, visit www.jhsp.h.edu/dept/ih/globalhealthdegrees/MSPH-PeaceCorps/.

MSPH/Registered Dietitian (RD)

Selected MSPH students in Human Nutrition can meet their practicum requirements completing supervised practice in dietetics at the Johns Hopkins Bayview Medical Center. This program offers students with a science-related undergraduate background and interested in public health nutrition, the opportunity both to obtain the MSPH degree and to complete supervised practice in public health nutrition in preparation for obtaining the RD credential. Students interested in this option should indicate their interest at the time they apply to the MSPH program. The MSPH/RD program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics.

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

PhD

duration: 4 to 7 years**
application deadline: Jan 2 (priority)

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

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

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

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

MSPH AND PHD CONCENTRATIONS

Global Disease Epidemiology and Control (GDEC)

The GDEC Program trains students to be future leaders in identifying disease etiologies, and in the design, implementation and evaluation of biomedical interventions to prevent, mitigate or treat diseases of global public health importance.

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

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

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

Health Systems

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

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

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

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

Graduates will be capable of playing a management role in governmental and nongovernmental organizations to include design, implementation, monitoring and evaluation of public health programs in low and middle-income countries and other low resources 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, public health teaching, institution building, community development and research on health systems.

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

Through a broad array of required and elective coursework, and with the guidance of experienced faculty advisers, doctoral and master’s degree students acquire and apply knowledge and skills in nutritional issues spanning the life, nutritional biochemistry and metabolism, assessment methods, food and nutrition policy and programs, nutritional epidemiology and other areas of public health application. Students are challenged to identify and consider solutions to important nutritional problems facing societies in terms of their causes, extent, severity and health that concentrate in the areas of international nutrition, effects and approaches to their prevention throughout the life cycle.

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

Social and Behavioral Interventions (SBI)
The SBI Program conducts research, training, and service on the development, implementation and evaluation of social, behavioral and community-based public health interventions. The program’s goal is to assist in the formulation of programs

ALUMNI SPOTLIGHT
In 2010, Nadi enrolled in the master’s degree in Global Disease Epidemiology and Control, advised by Professor Orin Levine. This past summer, Nadi worked on the Ghana Telemedicine Project in the Millennium Villages Project (MVP) site of Bonsaaso. She helped conduct an evaluation of the mobile phone intervention using social network analyses along with other qualitative and quantitative methods. For Nadi, one of the most exciting parts of the internship was learning how to do GPS mapping and then putting that skill immediately to use in the field. After graduation, Nadi plans to continue working with the electronic health team at the Earth Institute at Columbia University and then enter medical school in the fall of 2012.

Nadi Nina Kaonga, MHS ‘12
Global Disease Epidemiology and Control
International Health
which reflect the social, cultural, and policy context of health problems using a public health perspective, and a sound understanding of the epidemiology of health issues in developing countries.

SBI's primary focus is on the direct application of theory and data collection into public health action. It offers multidisciplinary training for researchers and public health practitioners who wish to use the social sciences in the design, implementation, and evaluation of public health programs, particularly community-based interventions.

Applicants to the master's program should have a prior degree in the social sciences or a related field. Doctoral candidates have generally already completed a prior master's degree in a related field of study and have some professional experience.

DrPH in International Health

duration: 5 years**

special application requirement:
must have an MPH or equivalent degree and three years of professional public health experience

application deadline: Jan 2 (priority)

The DrPH in International Health is a professional public health degree that prepares students for international leadership positions in public health practice for example in federal agencies, state and local health departments, nongovernmental organizations, universities, and health care institutions. Students entering the program should already have substantial public health experience (a minimum of three years) and graduate-level training in the field (MPH, MSPH or a related degree). The DrPH program includes more advanced courses in public health and in international public health. Students also complete an applied dissertation, and two non-dissertation projects.

The DrPH program is offered by the International Health Department (not a specific program area) and is a full-time program.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

ADDITIONAL EDUCATIONAL OPPORTUNITIES

The department offers the following certificate programs:

- Certificate in Global Health (fully online)
- Certificate in Humanitarian Assistance
- Certificate in Tropical Medicine (Summer Institute)
- Certificate in Vaccine Science and Policy
- Public Health Training Certificate for American Indian Health Professionals

For more information regarding certificates, flip to page 53 or visit www.jhsph.edu/academics/programs/certificates.

DEPARTMENTAL FUNDING

Master’s Programs

There are only a few tuition scholarships available to support students in their first year of study. MSPH tuition discount: after successfully completing 64 credits in didactic courses in year one, all students will receive a 75 percent tuition discount each term for the next four years (16 terms). The discount is given to all doctoral students provided a full-time enrollment (minimum 16 credits) and good academic status is maintained.

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

Doctoral Programs

Very few full- and partial-tuition scholarships and fellowships are available. After six terms (quarters) of full-time enrollment, all new doctoral students will receive a 75 percent tuition discount each term for the next four years (16 terms). The discount is given to all doctoral students provided a full-time enrollment (minimum 16 credits) and good academic status is maintained.

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.
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 target outcome of mental health and mental disorders is the distinguishing feature of the Department of Mental Health. Mental disorders are disturbances of thinking, feeling, and acting which have a proximate cause in the human 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 psychopathology, but does not provide clinical training.

**DEGREE PROGRAMS**

**MHS in Mental Health**

duration: 1 year**

application deadline: Mar 1

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

**BA/MHS in Mental Health**

duration: 5 years**

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

application deadline: July 1 between junior and senior undergraduate years

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

**PhD in Mental Health**

duration: 4 to 7 years**

application deadline: Dec 15 (preferred)

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

duration: 5 years**
special application requirement: must have an MPH or equivalent degree
application deadline: Dec 15 (preferred)

The DrPH program in the Department of Mental Health focuses on the direct application of a broad range of knowledge and analytical skills in public mental health for individuals in leadership, policy analysis, finance, and management positions. It has Schoolwide and department components. The Schoolwide component emphasizes advanced knowledge and skills associated with leadership, integration and application of skills in public health as broadly defined. The department component emphasizes knowledge and skills and their practical context for public mental health.

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 53 or visit www.jhsph.edu/academics/programs/certificates.

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 NIMH Psychiatric Epidemiology Training Program
- The NIMH Child Mental Health Services and Service Systems Training Program
- The NIDA Drug Dependence Epidemiology Training Program
- The NIA Aging and Dementia Training Program

DEPARTMENTAL FUNDING

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

RESEARCH SPOTLIGHT

Sleep/wake disturbances are common in older adults with Alzheimer’s disease (AD). We know little, however, about the neurobiological role of abnormal sleep in the development and progression of AD. Although studies in animals suggest that sleep disruption increases production of the protein β-amyloid (Aβ), one of the defining features of AD in the brain, this has not been shown in humans. Demonstrating a link of sleep/wake disturbance to Aβ in a group of older adults at high risk for AD would suggest that sleep disruption might predict development of AD. In addition, it would suggest a possible causal role for sleep/wake disruption in AD progression. In the proposed research, we will test the hypothesis that greater sleep/wake disturbance is associated with greater Aβ in humans with mild cognitive impairment (MCI) who are at high risk for progression to AD, as well as in a fruit fly (Drosophila melanogaster) model of AD. The research we conduct in the humans will determine whether or not there is an association between sleep/wake disturbance and Aβ, using positron emission tomography (PET) imaging. The experimental research we conduct in the fruit flies will examine whether disruption of sleep/wake rhythms exacerbates amyloid related pathology. Because sleep/wake disturbances can be treated, finding an association between sleep/wake problems and AD progression could have critical prognostic and therapeutic implications.
Molecular Microbiology and Immunology (MMI) employs the disciplines of virology, bacteriology, parasitology, immunology, structural biology, biochemistry, molecular biology, vector biology and ecology to gain a deeper understanding of the interaction between host and infectious agent. Research is conducted at the population, organismal, cellular and molecular levels. This broad approach to the study of disease is based on the idea that public health problems can best be addressed by understanding basic biological mechanisms.

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

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

**DEGREE PROGRAMS**

**MHS in Molecular Microbiology and Immunology**

duration: 1 year**

application deadline: international, April 1; domestic, June 1

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

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

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

*Applicants may not matriculate directly into this degree.

**The time it takes to complete a degree may vary by student and circumstances.
ScM in Molecular Microbiology and Immunology

duration: 2 years**
application deadline: April 1

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

In the first year of the program, ScM students complete the same core curriculum as MHS students. In addition to coursework, ScM 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.

ScM in Molecular Epidemiology*
duration: 1 year**
application deadline: April 1

PhD candidates in Epidemiology who wish to obtain laboratory training in Molecular Microbiology and Immunology may apply to the ScM program. Accepted students complete most ScM course requirements and laboratory rotations, and conduct bench research relevant to their epidemiological interests in an MMI laboratory. At the completion of their MMI research, students submit a written thesis and present their thesis work in a departmental seminar.

PhD in Molecular Microbiology and Immunology
duration: 5 years**
application deadline: Jan 2

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, vaccine development, host innate and adaptive immunity, pathogenesis, autoimmunity, bioinformatics, ecology of infectious diseases and medical entomology.

MMI PhD students learn mechanistic approaches to solving fundamental questions in microbiology and public health.

In the first year of the program, PhD students complete a core, three 11-week laboratory rotations and choose a thesis adviser. At the end of the first year, students must pass a comprehensive written examination in the form of a grant proposal which the students defend orally in front of a faculty committee. In the second year, students complete departmental and School course requirements, including a graduate board oral examination, and conduct 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.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

DEPARTMENTAL FUNDING

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

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

RESEARCH SPOTLIGHT

Research in the Department of Molecular Microbiology and Immunology (MMI) is primarily focused on uncovering the mechanisms underlying infectious disease pathogenesis, with one goal being to combat infectious diseases through the development of novel preventive and therapeutic treatments. Many investigators are working to develop novel vaccines, including a measles vaccine that could be administered to children less than six months of age; a universal influenza vaccine that recognizes proteins that are conserved across all strains of influenza; vaccines that block the transmission of malaria from mosquitoes to humans; and vaccines and treatments designed to block HIV and HSV infection and transmission. Several laboratories are also analyzing protective immune responses induced by vaccines, how host factors, such as age and sex, impact responses to vaccines, and how immune responses to vaccines can be improved and maintained for longer periods of time.
Department of
Population, Family and Reproductive Health

Population, Family and Reproductive Health (PFRH) is an interdisciplinary department whose research, teaching, and practice address issues concerning the health of children, adolescents, men, women and the elderly at both the family and population levels. The department’s efforts focus not only on the health and behavior of populations in the United States, 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: May 1

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

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

MHS

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

The department also offers the MHS in one of two concentrations: Child and Adolescent Health and Development

**The time it takes to complete a degree may vary by student and circumstances.
(CHAD) and Reproductive, Perinatal and Women’s Health (RPWH). This one-year academic program is designed for students who are interested in advancing their knowledge base related to their field of concentration (CHAD or RPWH), and wish to strengthen their research and analytic skills, improving their potential for career advancement. This program has a part-time option for working professionals.

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

**MSPH**

duration: 2 years**

application deadline: May 1

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

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

**Peace Corps Master’s International Program**

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

For more information regarding the MSPH/Peace Corps program, visit [www.jhsph.edu/dept/pfrh/degree_programs/master/MSPH_Masters_International.html](http://www.jhsph.edu/dept/pfrh/degree_programs/master/MSPH_Masters_International.html).

**PhD**

duration: 5 to 7 years**

application deadline: Jan 2

The PhD program in Population, Family and Reproductive Health is designed for students whose career goals are focused on conducting publishable, independent and original research. Students may enter the program with little or no professional public health work experience. The emphasis of the PhD program in PFRH is to train individuals to apply a social science prospective along with a broad range of research methods to issues related to the department’s three track areas.

Graduates of the program use their acquired substantive and methodological skills in a wide range of work settings, including institutions and organizations for teaching and research, to shape population, family and reproductive health.

**DrPH**

duration: 5 years**

special application requirement: must have an MPH or equivalent degree

application deadline: Jan 2

The DrPH program in Population, Family and Reproductive Health is designed for individuals with a minimum of three years of full-time work experience in health and/or human services and an MPH or equivalent master’s degree. The goal of the program is to provide students with an understanding of the application of public health sciences as it relates to current knowledge in the department’s three track areas.

Graduates of the program are trained to assume leadership positions in public health integrating knowledge across a variety of related disciplines to inform national and international policy and programs.

**DEGREE CONCENTRATIONS (MHS, MSPH, PhD & DrPH)**

**Child and Adolescent Health and Development**

The Child and Adolescent Health and Development (CHAD) track provides multidisciplinary training in the health and well-being of infants, children and adolescents. The track enables students to explore and examine the biological, behavioral, social and psychological processes contributing to child and adolescent health and the social, environmental, nutritional and economic factors that may enhance or impede their wellbeing.

**Population and Health (MSPH & doctoral only)**

The Population and Health (P&H) track focuses on the dynamics of population in terms of size, structure and characteristics, and on both determinants and consequences of change. Training in sociology, economics and statistics are incorporated, as well as training in formal demography, the core discipline underlying population
areas of focus include population aging, migration, family life, and formal demography.

**Reproductive, Perinatal and Women’s Health**
The Reproductive, Perinatal & Women’s Health (RPWH) track has a holistic focus on women’s and families’ needs both domestically and internationally. It provides training in research, practice and policy in human reproduction and family planning; maternal health and the health of newborns; health disparities and services for women of reproductive age; and gender issues. The track enables students to combine an interest in RPWH with a broader knowledge base offered by the interdisciplinary faculty.

For more information regarding degree application requirements, flip to “How to Apply” on page 62 or visit www.jhsph.edu/admissions.

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**ADDITIONAL EDUCATIONAL OPPORTUNITIES**

**Certificates**
The department offers the following certificate program:
- Certificate in Adolescent Health
- Certificate in Demographic Methods
- Certificate in Maternal and Child Health
- Certificate in Population and Health
- Certificate in Public Health Economics

For more information regarding certificates, flip to page 53 or visit www.jhsph.edu/academics/programs/certificates.

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**DEPARTMENTAL FUNDING**
Funding for master’s and doctoral students is determined on a case by case basis. All second-year MSPH students in good standing receive a 75 percent Master’s Tuition Scholarship from the School. The department is committed to helping doctoral students finance their degree. Some funding is available through training grants and departmental and Schoolwide scholarships and awards.

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

For more information regarding funding, tuition costs and financial aid, flip to page 68 or visit www.jhsph.edu/admissions/financial-aid.

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**STUDENT SPOTLIGHT**

Deana Around Him is convinced the path toward improving health in American Indian communities begins with a focus on mothers and their infants. Deana, an American Indian and citizen of the Cherokee Nation of Oklahoma, originally dreamed of a career in medicine. But during her pre-med studies at Brown University, she discovered the Department of Community Health. Deana felt she could make a greater impact through public health than through clinical medicine.

Deana completed her BA in Community Health at Brown and went on to earn a ScM from the Department of Society, Human Development and Health at Harvard School of Public Health. Now, as a fourth year DrPH candidate in the Bloomberg School’s Department of Population, Family and Reproductive Health, Deana is looking at the relations between maternal psychosocial health during pregnancy and birth outcomes among American Indians in the Northern Plains. More specifically, she’s examining measures of anxiety, depressive symptoms, resilience and post-traumatic stress disorder to see how they relate to infant birth weight and prematurity.

“In public health, we often talk about strengthening families and being culturally responsive; however, we do not have a lot of evidence that demonstrates what it means to do this or how we can do it in a cost-effective way given our limited public health dollars,” Deana says. “Ten or twenty years from now, I hope that we will have evidence-based approaches for improving the health of American Indian communities that respectfully integrate our cultures and are grounded in a focus on families.”

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Deana Around Him  
DrPH Candidate  
Population, Family and Reproductive Health
Master of Public Health

Program Chair
Marie Diener-West, PhD

Senior Program Manager
Paul Whong
888-548-6741 or 410-955-1291
mphprog@jhsph.edu

Degree Programs
Master of Public Health (MPH),
Schoolwide degree with the option to customize or concentrate in one of the following:
• Child and Adolescent Health
• Epidemiologic and Biostatistical Methods for Public Health and Clinical Research
• Food, Nutrition and Health
• Global Environmental Sustainability and Health
• Health in Crisis and Humanitarian Assistance
• Health Leadership and Management
• Health Systems and Policy
• Infectious Diseases
• Social and Behavioral Sciences in Public Health
• Women’s and Reproductive Health

Combined Programs
• MPH/MBA
• MPH/MSW
• MSN/MPH
• JD/MPH
• MPH/MD

www.jhsph.edu/mph

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

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

The MPH is a flexible program that can be customized to meet a variety of professional and career goals. Students may study on a full-time basis or on a part-time/Internet-based basis. Full-time and part-time/Internet-based students fulfill the same academic requirements and receive the same degree.

Full-Time Study

duration: 11 months

special application requirement: health-related experience and college-level coursework—see page 42

application deadline: Dec 1

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

Part-Time/Internet-Based Study

duration: up to 3 years

special application requirement: health-related experience and college-level coursework—see page 42

application deadlines:
November (Barcelona, Spain) start, August 1
January (Baltimore) start, September 1
June (Baltimore) start, January 2

Part-time/Internet-based students complete the degree within three years of matriculation through a combination of online and in-person classes taken either on the East Baltimore campus during regular academic terms, in intensive-learning Summer and Winter Institutes or at other sites where Johns Hopkins Bloomberg School of Public Health courses are offered for credit. Students can earn up to 80 percent of their academic credits online.

MPH CURRICULUM

The MPH program provides a balance between a broad-based core curriculum and opportunities to pursue individual interests. The curriculum, which is grounded in the critical disciplines and competencies of public health, includes the following core courses:
• Environmental Health
• Principles of Epidemiology
• Problem Solving in Public Health or Making Change through Policy and Population Dynamics and Public Health

In addition, students are also required to complete coursework in each of the following areas:
• Biostatistics
• Public Health Biology
• Management Sciences
• Social and Behavioral Sciences

Students must also complete the following projects:
• MPH Individualized Goals Analysis
• Practicum Experience in Population-based Health
• MPH Capstone

The MPH Individualized Goals Analysis project is completed within two terms of matriculation and is an opportunity for students to develop a plan for their MPH program of study that meets their educational and professional goals. The MPH Capstone
ADMISSION REQUIREMENTS

The MPH program has admissions requirements beyond what the academic departments require. These additional requirements include:

- Health-related experience beyond the baccalaureate level. This requirement can be satisfied in any one of the following ways:
  - 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

This requirement may be waived for applicants to the MPH/MSW, JD/MPH and MSN/MPH degree programs.

- All matriculating MPH students shall have successfully completed at least one college-level course in the following areas:
  - Mathematics (e.g., calculus, algebra, statistics)
  - General biology
  - Health-related science (e.g., nutrition, microbiology, anatomy or physiology), OR another biology course

GRADUATION REQUIREMENTS

- Complete 80 units required for graduation
- Complete at least 60 units in formal Bloomberg School coursework units that are not special studies
- Maintain a grade C or better in all required MPH core courses and in courses applied to meet concentration area requirements that are offered for a letter grade
- Complete the MPH Goals Analysis project
- Complete the MPH Capstone project
- Satisfy the Practicum Requirement
- Part-time/Internet-based students must complete at least 16 units of coursework in a face-to-face format
- Maintain minimum academic standards as described in the MPH Program Manual
- Complete the Bloomberg School’s Academic Ethics module

For a detailed description of graduation requirements, please refer to the MPH Program Manual at www.jhsph.edu/academics/degreeprograms/mph/current_students.

MPH CUSTOMIZED PROGRAMS AND CONCENTRATION AREAS

Full-time MPH students may choose an optional concentration area or customize their program of study. Regardless of their choice, all students must complete the MPH core course requirements. Students electing a concentration must complete a number of required course units as specified by the concentration area over and above the MPH core course requirements. Alternately, students who customize their program of study must complete the core MPH requirements and then, in consultation with their faculty advisers, choose elective courses for the remaining units.

Part-time/Internet-based students who participate through a predominantly off-campus format cannot elect a concentration but can use concentration requirements as a guideline to customize a specialization in a particular area of public health.

MPH Customized Program of Study

The MPH customized program is designed for students who are interested in a broad perspective on the science and practice of the population-based approach to health and disease. It allows students the flexibility to tailor programs which meet their individual professional goals and interests. Such students often already have a specific area(s) of expertise, but also prefer the option of access to a wide range of course content throughout the academic year. Additional reasons for choosing a customized program might include having academic objectives that do not precisely fit into the more structured concentration areas or a desire to explore several different areas within public health.

The only required courses are those included in the core MPH curriculum, with the remainder as tailored electives. Customized students will meet monthly as a group. These meetings will provide an academic and professional “home” for the customized students and an opportunity to interact with other students and faculty with a broad range of interests.

Child and Adolescent Health

The MPH concentration in Child and Adolescent Health (CAH) focuses on understanding the health problems and health status 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 developed and developing countries. Students participating in the CAH concentration will be assigned a faculty adviser with similar interests and will be assisted in developing an understanding in the following critical areas based on their coursework, their Capstone, and the seminars conducted monthly by the CAH Concentration:

- The concept of child/adolescent health, and the determinants of child and adolescent health status in industrialized and resource-limited
settings, including socioeconomic, demographic, developmental, behavioral, cultural, political, and environmental determinants

- Current basic understanding of specific health problems of children and adolescents, including obesity and other nutritional issues, injury, infectious diseases and HIV, chronic and disabling conditions, adolescent health concerns, and others

- The design, development, implementation and evaluation of public health programs to improve the health and well-being of children, including immunization programs, child survival strategies, primary health care, health promotion and disease prevention efforts, including those that target HIV/AIDS, and injury prevention

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

This concentration is designed for students with quantitative backgrounds who wish to pursue a rigorous curriculum in epidemiologic study design and statistical data analysis. The goal of this concentration is to help students participate in the design, conduct an analysis of research studies in public health and put concepts into practice. This concentration is best suited for public health and 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. The competencies gained from this concentration include the following:

- Articulating an appropriate question/hypothesis
- Identifying an appropriate study design and data set for answering the question
- Obtaining Institutional Review Board (IRB) approval
- Gaining familiarity with aspects of data management
- Identifying and applying appropriate statistical methods and correctly interpreting results
- Gaining familiarity with tracking and recording steps in the analysis of a data set
- Writing up the results of a data analysis for a professional publication
- Oral presentation of the results

**Food, Nutrition and Health**

This concentration provides students with an opportunity to focus their study on food and nutrition as it affects health and integrate this information with other coursework in order to develop the skills to understand and address nutrition problems in the U.S. and around the world.

Students choosing this concentration will gain an understanding of:

- The role of foods and nutrition in disease risk and prevention
- The methods for studying food consumption, nutritional status and the use and interpretation of nutritional data
- The design and implementation of nutrition programs and policy to improve the nutrition and health of diverse populations

**Global Environmental Sustainability & Health**

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

The goal of this concentration is to provide students with the necessary knowledge about the drivers of global environmental change and the consequences for health. In addition, students will gain necessary skills to develop appropriate responses to these challenges for global environmental sustainability through qualitative research methods and behavioral change interventions.

The objectives of this MPH concentration include:

- Acquire key knowledge of the drivers of global environmental change and possible responses on local, regional and global scales:
  - Identify the five main drivers of global environmental change: land use, energy use, food use (i.e., food production and distribution), water use and population growth
- Develop a set of intervention skills to change behavior:
  - Present information on global environmental change and possible responses for a range of audiences (e.g., professional groups, community organizations, schools)
  - Select models and theories relevant to the design of behavior change interventions for different groups and behaviors, and apply them in design of the intervention
  - Develop a plan for behavior change communication for behaviors related to sustainable use of the environment.
**Health in Crisis and Humanitarian Assistance**

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

A variety of methods will be used to teach students basic skills including to:
- Identify, protect and advocate for vulnerable groups
- Develop appropriate public health responses for refugees and displaced persons
- Measure health and demographic indicators in humanitarian emergencies
- Plan food, water, and sanitation programs for displaced populations
- Implement and monitor humanitarian assistance programs

**Health Leadership and Management**

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

Topics covered include the following:
- Understanding the health care environment
- Leadership and management development
- Organizational structure and design
- Strategic management and planning
- Organizational stakeholders
- Governance
- Human resources management
- Managing change
- Quantitative tools for management

**Infectious Diseases**

This concentration provides students with a sound knowledge of the processes through which public policy decisions are made; training in basic quantitative and analytic methods; and the skills needed to use and critique data, research findings and program evaluations in the development of health policy. The curriculum provides an overview of changes occurring in the U.S. and internationally in health sectors policy and financing, comparing countries at different levels of income and with varying health system infrastructures.

Topics include the role of government in the health sector, sources of revenue for the health sector, health insurance systems, provider organization and payment methods, access to health care and the policy making process for the health sector and for specific public health areas—for example, road traffic injuries and occupational health.

**Social and Behavioral Sciences in Public Health**

This concentration provides students with competencies in multiple disciplines including epidemiology, immunology, microbiology, parasitology, and vector-borne diseases to address critical problems in the control and prevention of infectious diseases. Students who complete the concentration gain special expertise in the pathogenesis, epidemiology, and control of infectious diseases appropriate for careers within state health departments, federal agencies or the pharmaceutical industry conducting research in these matters. Students are exposed to the fundamental concepts underlying the epidemiology and control of a number of infectious diseases affecting global health.
organizations and government agencies at all levels. The concentration includes required and elective courses, a special seminar, and a capstone experience. Students completing this concentration may be eligible to take the national exam to become a Certified Health Education Specialist.

**Women’s and Reproductive Health**

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

- The scope and magnitude of health problems for women with regard to their health in general or reproductive health, with a focus across the life span, and including infectious, chronic and disabling conditions
- The determinants of women’s and reproductive health, including socioeconomic, cultural, behavioral, environmental, political and other determinants
- Analytic skills in the core MPH courses, as they are applied to women’s and reproductive health as well as other skills including demographic, evaluation and epidemiologic methods
- Development and implementation of public health programs and clinical interventions to improve the reproductive health and well being of women, including programs related to family planning services, safe motherhood or health during the reproductive years

**ADDITIONAL ACADEMIC OPPORTUNITIES**

**Combined Programs**

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

For more information regarding these and other combined programs, flip to page 48 or visit www.jhsph.edu/academics/academicprograms/combined_programs/.
The Doctor of Public Health (DrPH) degree is a Schoolwide advanced professional degree program designed for the student who has a Master of Public Health (MPH) degree or its equivalent and who intends to pursue a leadership career in the professional practice of public health. The mission of the DrPH program is to prepare graduates to advance the public’s health through the integration and application of a broad range of knowledge and analytical skills in leadership, practice, policy analysis, program management and professional communication, coupled with preparation in a specific disciplinary public health field. The DrPH program prepares graduates to apply these skills and methods in both academic and non-academic settings, as well as in public-agency or private-sector settings that emphasize improving the health of the public.

The DrPH Program has both a Schoolwide component and a departmental component. Generally stated, the Schoolwide component emphasizes the advanced, cross-cutting knowledge and skills associated with leadership, integration and application of public health concepts. The departmental component emphasizes the disciplinary knowledge and competence in a specific public health field.

CURRICULUM
Core competencies to be mastered by DrPH students include the core knowledge and abilities of the MPH program plus advanced expertise in health and disease in human populations, public health leadership, and methodologies essential to the solution of public health problems, as well as the administration and evaluation of public health programs.

The core curriculum shall include formal course work plus a DrPH Schoolwide Seminar, where informal interactions among student and faculty enhance student professional development. The objectives of the DrPH seminar are to help students understand the intellectual origins of public health as a field and to help build a DrPH intellectual community by linking DrPH students across departments and across cohorts as well as with public health practitioners and faculty working on a wide range of public health challenges.

Full-Time Study
The DrPH degree may be completed on either a full- or part-time basis depending on the department and course of study. Candidates in the full-time DrPH program fulfill the residency requirement and register for a full course load each term.

Part-Time Study
The part-time DrPH is designed to allow working public health professionals to complete a doctoral education as part of a career development plan. Specific deadlines for completion of the full- and part-time program requirements are found in the departmental handbooks.

The doctoral dissertation for the DrPH demonstrates the student’s capacity for public health analytic work. The DrPH dissertation
meets the following criteria: addresses a practical problem confronting a leader in public health practice; represents original thought and work; uses a rigorous and scientifically defensible analytic component; and is based on a conceptual model that relates the work to existing knowledge and practice. The specific content of the dissertation is developed by the student in consultation with the faculty of his/her department.

For specific graduation requirements, DrPH candidates should consult their departmental handbooks/student manuals.

The departments offering the DrPH include the following:

• Environmental Health Sciences
  www.jhsph.edu/dept/ehs
• Epidemiology
  www.jhsph.edu/dept/epi
• Health, Behavior and Society
  www.jhsph.edu/dept/hbs
• Health Policy and Management
  www.jhsph.edu/dept/hpm
• International Health*
  www.jhsph.edu/dept/ih
• Mental Health
  www.jhsph.edu/dept/mh
• Population, Family and Reproductive Health
  www.jhsph.edu/dept/pfrh

*Full-time program only. The other DrPH programs are offered full- and part-time.

Additional information on these departments can be located in the respective department chapters of this Prospectus.

ADMISSION REQUIREMENTS

The DrPH degree is designed for the student who already has a Master of Public Health (MPH) degree or an equivalent master’s. Beyond the MPH degree, admission requirements include the following:

• At least two years of relevant work experience or relevant professional skills as determined by the department to which the student is applying
• In addition to specific departmental requirements, evidence of quantitative or evaluative skills and ability, usually in the form of scores on recent GRE or other standardized exams taken in the last five years
• If applicable, results of the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS)

Admission to the DrPH program is determined by each department offering the degree. Admission is based on evaluation of the applicant’s educational and work experience, past academic performance and potential to provide leadership in public health. Questions about specific admission requirements for the DrPH should be addressed to both the DrPH program office and the department of interest.

For more information regarding degree application requirements, flip to "How to Apply" on page 62 or visit www.jhsph.edu/admissions.
Graduate students working towards degrees in medicine, nursing, business, social work, international relations or law may integrate their degree programs with a public health degree from the Johns Hopkins Bloomberg School of Public Health. These degrees will provide students with additional credentials and unique skill sets that will prepare them for careers within their fields requiring a high degree of health care expertise.

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

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

**BA/MHS or BA/MSHP**
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, Epidemiology and Mental Health also offer the option of a BA/MHS. Further details regarding the application and application deadlines may be found in the “How to Apply” section beginning on page 62.

Applications can be obtained from Admissions Services (www.jhsph.edu/admissions) or from the public health studies adviser on the Homewood campus (Dr. James D. Goodyear, 3505 N. Charles Street, Homewood campus, 410-516-7812, or goodyear@jhu.edu). Admitted students must complete the BA degree before formally enrolling in the Bloomberg School.

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

The program is designed to prepare students for careers requiring a high level of public health expertise and a sophisticated understanding of international, political, socioeconomic and cultural issues. It emphasizes the synthesis of knowledge and experience essential for planning and managing health services in a variety of settings around the world. Students in the combined MA/MSPH program begin in August and normally spend one and a half years completing coursework at the Bloomberg School 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 a SAIS catalog and application, visit www.sais-jhu.edu/admissions or call 202-663-5700.

**JD/MPH**
The JD/MPH program prepares students in the overlapping fields of law, public health, policy, and ethics. Eligible candidates must apply and be accepted into the full-time MPH program at the Bloomberg School of Public Health and also separately apply and be accepted into the full-time program at Georgetown University Law Center or into another accredited U.S. or Canadian law school for the Juris Doctor degree, taking care to indicate on the public health 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 offered in a full-time format only 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 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 further information on the program, contact Professor Jon Vernick (410-955-7982) or Professor Stephen Teret (410-955-3995), 624 N. Broadway, Baltimore, MD 21205.

MPH/MBA
The Bloomberg School, in conjunction with the Carey Business School of Johns Hopkins University, offers the Master of Public Health (MPH) and Master of Business Administration (MBA) degree program. This unique, 21-month, full-time program of study enables students to integrate the philosophies, functions and competencies of the seemingly disparate fields of public health and business. Students acquire knowledge and skills in the principles of population-based health as well as of finance and management, enabling them to be more effective managers and leaders in health-related agencies and organizations. Graduates will be able to assess the public health needs of a defined population; develop, analyze and implement targeted health policies and programs; lead the process of change within their own organizations and communities; manage health care organizations so that identified goals can be achieved; and communicate health-related messages to targeted audiences.

An application for the MPH/MBA degree program is available at www.jhsp.edu/admissions. The admissions committees of both schools will review all applications. For more information, contact the MPH Program Office at 410-955-1291.

MPH/MSW
In collaboration with the University of Maryland School of Social Work (UMSSW), the Bloomberg School offers the Master of Public Health (MPH) and Master of Social Work (MSW) degree program. This program 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.

MPH/MSW students complete the core MPH requirements, along with a customized public health curriculum and all required MSW coursework within a specific area of concentration. In a combined public health and social work practicum, the University of Maryland grants 6 to 9 academic credits for public health coursework, and the Bloomberg School allows up to 20 credits of special studies.

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, taking care to indicate on the schools’ application form the appropriate beginning year for the MPH program. For students who successfully complete the degree program, the standard MPH admission prerequisite of previous health-professional training or two years of health-related experience is waived. All other prerequisites must be met.

Applicants must send their official transcripts and GRE scores separately to each school, and must also provide separate recommendations using the appropriate forms. Further information about the University of Maryland’s MSW program may be obtained by contacting the Office of the Associate Dean for Admissions at 410-706-8044.

MPH/MD
Medical students desiring a Master of Public Health (MPH) typically enroll in the MPH program between their third and fourth years of medical school. Medical students must apply to the program and request a leave of absence from medical school. The years of medical training will fulfill the two years of health experience required for admission to the School’s MPH program. For more information, contact the MPH program office at 410-955-1291. mphprog@jhsph.edu.

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

Applications for the MSN/MPH degree program must be obtained from and submitted to the School of Nursing, and will be reviewed by the admissions committees of both the School of Nursing and the Bloomberg School. The steering committee for the degree program will make the final admission decision. For more information and an application, contact the Office of Admissions and Student Services, The Johns Hopkins School of Nursing, 525 N. Wolfe Street, Baltimore, MD 21205; call 410-955-7548 or visit http://nursing.jhu.edu/academics/programs/masters/msn-mp/ index.html.

MSPH/MI
(Peace Corps Master’s International)
MSPH students in the departments of International Health and Population, Family and Reproductive Health have the opportunity to combine academic coursework with a rewarding experience through the Peace Corps.

For information on the program through the Department of International Health: www.jhsp.edu/dept/intl/globalhealthdegrees/MSPH-PeaceCorps.
MD/PhD
The Bloomberg School, in conjunction with the Johns Hopkins School of Medicine, offers the MD/PhD degree program. Admitted students complete two years of medical school before pursuing a PhD program full-time at the Bloomberg School. After completion of the PhD degree requirements, students return to the School of Medicine to complete the MD degree. Candidates for the MD/PhD degree must fulfill all of the normal requirements for the PhD degree. Prospective students must submit application materials to the Admissions Office at the School of Medicine. For more information, visit the program’s website at www.hopkinsmedicine.org/mdphd, or contact the MD/PhD Program Administrator, Ms. Sharon Welling (swelling@jhu.edu or 410-955-8543).

COMBINED DEGREE PROGRAMS OFFERED WITHIN THE BLOOMBERG SCHOOL
Note: The PhD program is the primary program of study for any student accepted into a concurrent master’s degree program.

Doctoral/MHS in Biostatistics
The Department of Biostatistics provides students who are candidates for doctoral-level degrees in one department of the School with the opportunity to earn a Master of Health Science (MHS) degree in Biostatistics during the course of their doctoral studies.
Candidates must apply directly to, and be admitted by, the Department of Biostatistics. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the MHS degree. The MHS must be relevant to the candidate’s field of doctoral study and must not impede progress in the doctoral program. For information about the MHS programs in the Department of Biostatistics, contact Mary Joy Argo at 410-614-4454 or margo@jhsph.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 the MSPH programs from the Department of International Health, see page 31 or call 410-955-3734.

Doctoral/ScM in Molecular Epidemiology Program
The Bloomberg School offers specialized cross-training in molecular epidemiology, whereby PhD students in one of the School’s laboratory-based science departments (Biochemistry and Molecular Biology; Environmental Health Sciences; Molecular Microbiology and Immunology; and the laboratory groups in International Health) earn a concurrent Master of Science (ScM) degree from the Department of Epidemiology. PhD students in the Department of Epidemiology have a similar opportunity to concurrently earn an ScM degree from one of the laboratory-based science departments.
Candidates must apply and be admitted to the department of doctoral study and then to the department of master’s study. Accepted students must have the permission of their doctoral department to enroll and to complete all requirements for the ScM degree. A number of shared course requirements and value-added activities will provide candidates with solid training in the complementary sciences to encourage interdisciplinary approaches to solving public health problems. For more information, contact Dr. Patti Gravitt, Associate Professor of Epidemiology and Chair of Molecular Epidemiology Committee, pgravitt@jhsph.edu.
**Residency Programs**

**Program Manager**  
Chris Brown  
410-955-3362  
cjbrown@jhsph.edu

The School offers residency programs for physicians in General Preventive Medicine and Occupational and Environmental Medicine. Both programs 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.

[www.jhsph.edu/academics/residency_programs](http://www.jhsph.edu/academics/residency_programs)

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**THE GENERAL PREVENTIVE MEDICINE RESIDENCY PROGRAM**  
The General Preventive Medicine Residency (GPMR) is a two-year program that 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 specialty of medical practice that focuses 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. As preventive medicine specialists, graduates of the program assume leadership positions in government, international health, academia and clinical medicine. The program consists of an academic year and a practicum year and 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.

The GPMR training consists of PGY2 and PGY3. Physicians entering the program must have completed at least one year of clinical training in an approved program in the U.S. prior to entering the program. This year may either be a transitional internship or part of a residency.

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

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, twice-weekly preventive medicine seminars, quarterly Grand Rounds, and a preventive medicine core course enhance the educational program. In the second half of the year, residents participate in teaching an undergraduate introduction to public health course on the Hopkins Homewood campus. Residents are expected to participate in preventive medicine research during the academic and/or practicum years of the residency; publication and presentation of research results are encouraged. Residents will also participate in a weekly clinic experience in each year of the program to fulfill the new clinical requirement.

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

**Note:** Admission to the Bloomberg School’s Master of Public Health (MPH) degree program is a prerequisite for admission to the residency program. Applicants apply
simultaneously for the MPH and residency programs, using one application. Applicants will be notified separately of each decision.

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. The purpose of the elective is to provide both a broad overview of the field and a brief, in-depth experience in a specific area of preventive medicine/public health.

To apply for the residency training, applicants should submit a complete application and supporting materials to Admissions Services by December 1. Interviews are required; applicants selected for interviews are invited to come to campus in January and February. For application information please visit the Bloomberg School’s website, [www.jhsph.edu/admissions](http://www.jhsph.edu/admissions).

For further information about the General Preventive Medicine Residency or the elective, visit [www.jhsph.edu/gpmr](http://www.jhsph.edu/gpmr), or contact the administrator, Christine Brown, General Preventive Medicine Residency Program, Johns Hopkins Bloomberg School of Public Health, 615 N. Wolfe Street WB602, Baltimore, MD 21205; phone: 410-955-3362; fax: 410-614-1582; email: cj-brown@jhsph.edu.

### THE OCCUPATIONAL AND ENVIRONMENTAL MEDICINE RESIDENCY PROGRAM

The overall objective of the Occupational and Environmental Medicine Residency (OEMR) is to train specialists for careers in any of the major sectors of the field—academia, industry, government, clinical practice, or labor—and provide expertise in both clinical and preventive aspects of occupational and environmental medicine. The program is fully accredited by the Accreditation Council for Graduate Medical Education (ACGME). Completion of the program leads to eligibility for certification by the American Board of Preventive Medicine. In general, all residents receive stipend support, tuition support, and health, life, and disability insurance. The OEMR training consists of PGY2 and PGY3. Physicians entering the program must have completed at least one year of clinical training in an approved program in the U.S. prior to entering the program. This year may either be a transitional internship or part of a residency. The most competitive applicant will already have completed residency training in another clinical specialty (e.g., internal medicine, family practice).

The first (academic) year involves 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. The second (practicum) year consists of rotations in a variety of settings, including clinical, government, industry and union organizations. An optional third year may be spent in a postdoctoral research fellowship for trainees interested in academic careers.

**Note:** Admission to the Bloomberg School’s Master of Public Health (MPH) degree program is a prerequisite for admission to the residency program. Applicants apply simultaneously for the MPH and residency programs, using one application. Applicants will be notified separately of each decision.

To apply for the residency training, applicants should submit a complete application and supporting materials to Admissions Services by October 31. Interviews are required; applicants selected for interviews are invited to come to campus in November and early December. Candidates are notified by December 15 of the Residency Admissions Committee’s decision. For application information please visit the Bloomberg School’s website, [www.jhsph.edu/admissions](http://www.jhsph.edu/admissions).

For further information about the Occupational and Environmental Medicine Residency, visit [www.jhsph.edu/omr](http://www.jhsph.edu/omr), or contact the administrator, Christine Brown, Occupational and Environmental Medicine Residency Program, the Johns Hopkins Bloomberg School of Public Health, 615 N. Wolfe Street WB602, Baltimore, MD 21205; phone: 410-955-3362; fax: 410-614-1582; email cj-brown@jhsph.edu.
Certificate Programs

The certificate programs offered by the Bloomberg School provide academic training designed to appeal to students seeking targeted education in a specific area of public health. Certificate programs have fewer course requirements than formal degree programs and are offered to 1) students currently enrolled in a Hopkins degree program who may pursue a certificate as part of their curriculum and 2) individuals not enrolled in a Hopkins degree program.

All certificates are offered for academic credit. Nondegree students may elect to take three certificates not-for-credit: Global Health Certificate, Public Health Training Certificate for American Indian Health Professionals and Training Certificate in Public Health. The Global Health Certificate and the Training Certificate in Public Health can be earned entirely online.

Admissions requirements, educational objectives and completion requirements vary with each certificate program.

A complete list of certificates may be found by visiting www.jhsph.edu/academics/programs/certificates.

The most accurate certificate admissions information may be found on the individual certificate’s webpage.

CERTIFICATE PROGRAMS FOR HOPKINS DEGREE STUDENTS

Adolescent Health
Population, Family and Reproductive Health

This certificate program focuses on the health and welfare of adolescents and youth with particular attention on adolescent pregnancy, substance abuse, violence prevention and mental health promotion. Those earning the certificate will be able to apply knowledge of adolescent growth and development, positive youth development, and cultural and ethical considerations of youth to design, implement, and evaluate adolescent health-related research, programs, and policies. Some topic areas include: primary causes of adolescent mortality and morbidity; adolescent growth and development; ethical issues inherent in working with adolescents who are legal minors; policy and legislation that affects adolescent health.

www.jhsph.edu/academics/programs/certificates/program/54

Bioethics and Health Policy
Health Policy and Management

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

www.jhsph.edu/academics/programs/certificates/program/38

Community-Based Public Health
Health, Behavior and Society

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

www.jhsph.edu/academics/programs/certificates/program/44

Gerontology
Epidemiology / Health Policy and Management

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

www.jhsph.edu/academics/programs/certificates/program/1

Health and Human Rights
Environmental Health Sciences

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

Health Communication
Health, Behavior and Society

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

Health Disparities and Health Inequality
Health Policy and Management

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

Health Education
Health, Behavior and Society

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

Humanitarian Assistance
International Health

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

Maternal and Child Health
Population, Family and Reproductive Health

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

Public Health Preparedness
Health Policy and Management

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

Vaccine Science and Policy
International Health

The certificate program provides a framework for understanding vaccine science and policy, from clinical research to implementation, in both the United States and internationally.

CERTIFICATE PROGRAMS FOR HOPKINS AND NONDEGREE STUDENTS

Demographic Methods
Population, Family and Reproductive Health

The certificate is designed to serve two audiences—masters or doctoral degree students at the Johns Hopkins University and junior and mid-level professionals—desiring to gain skills in applying demographic analytic methods to identify or forecast public health problems and evaluate the effectiveness of policies or interventions.
aimed at mitigating them. Demographic analytic methods are used to calculate denominators of health measures.

www.jhsph.edu/academics/programs/certificates/program/57

Environmental and Occupational Health
Environmental Health Sciences

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

www.jhsph.edu/academics/programs/certificates/program/39

Global Health
International Health

The Global Health Certificate teaches design and implementation of public health programs, and social, behavioral and management skills applied to underserved populations. It is designed for public health professionals who are practicing or plan to practice in developing countries and to degree seeking JHSPH students. Nondegree students may earn the certificate for-credit or not-for-credit.

www.jhsph.edu/academics/programs/certificates/program/59

Global Tobacco Control
Health, Behavior and Society

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

www.jhsph.edu/academics/programs/certificates/program/41

Health Finance and Management
Health Policy and Management

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

www.jhsph.edu/academics/programs/certificates/program/5

Healthcare Epidemiology and Infection Prevention and Control
Epidemiology

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

www.jhsph.edu/dept/epi/

Humane Sciences and Toxicology Policy Certificate
Environmental Health Sciences

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

www.jhsph.edu/academics/programs/certificates/program/32

Injury Control
Health Policy and Management

The Certificate in Injury Control program provides high quality graduate training in injury control to individuals from a wide array of backgrounds.

Students learn the fundamentals of assessing the impact of injuries on the public’s health, identifying groups at highest risk for various types of injuries, understanding the causes of injuries and determining the most effective means of preventing injuries or reducing their severity.

www.jhsph.edu/academics/programs/certificates/program/3
Mental Health Policy, Economics and Services
Mental Health

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

www.jhsph.edu/dept/mh

Population and Health
Population, Family and Reproductive Health

The certificate is designed to serve two audiences—master’s or doctoral degree students at The Johns Hopkins University and junior and mid-level professionals—desiring to expand their knowledge of population dynamics and its linkages with public health issues and their ability to relate population-level concepts and measures of fertility, morbidity and mortality, and migration to epidemiologic risks. A population’s health is shaped by fertility, mortality and migration patterns; and population numbers themselves provide the denominators of basic measures of public health, such as life expectancy, cause-specific mortality rates, and infection rates.

www.jhsph.edu/academics/programs/certificates/program/56

Public Health Economics
Health Policy and Management/International Health/Population, Family and Reproductive Health

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

www.jhsph.edu/academics/programs/certificates/program/31

Public Health Informatics
Health Policy and Management

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

www.jhsph.edu/academics/programs/certificates/program/53

Public Health Training Certificate for American Indian Health Professionals
International Health

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

www.jhsph.edu/academics/programs/certificates/program/30

Public Mental Health Research
Mental Health

This program provides graduate training in understanding the causes and consequences of mental disorders in populations. Courses describe clinical and behavioral features, the incidence and prevalence of disorders, and identify factors that promote or influence the occurrence, persistence, or severity of mental and behavioral disorders. Effective research strategies in public mental health include operationalization of case definitions, measurement in populations, design of prevention strategies and analytical techniques.

www.jhsph.edu/academics/programs/certificates/program/17

Quality, Patient Safety and Outcomes Research
Health Policy and Management

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

www.jhsph.edu/dept/hpm/

Risk Sciences and Public Policy
Environmental Health Sciences/Epidemiology/Health Policy and Management

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

www.jhsph.edu/academics/programs/certificates/program/15

Tropical Medicine
International Health/Molecular Microbiology and Immunology

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

www.jhsph.edu/academics/programs/certificates/program/13

CERTIFICATE PROGRAMS FOR NONDEGREE STUDENTS ONLY

Training Certificate in Public Health
Office of Continuing Education

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

www.jhsph.edu/academics/programs/certificates/program/47

Training Certificate in Public Health Practice
Office of Continuing Education

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

www.jhsph.edu/academics/programs/certificates/program/11

Training Certificate in Quantitative Methods in Public Health
Office of Continuing Education

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

www.jhsph.edu/academics/programs/certificates/program/29
Additional Learning Opportunities:
Institutes and Postdoctoral Training Programs

INSTITUTES
Various departments within the Bloomberg School sponsor Summer Institutes at the East Baltimore campus. The School also offers a two-week Winter Institute in January with courses available in East Baltimore and in Washington, D.C., and a Fall Institute in Barcelona, Spain. Institute courses are available to degree and non-degree students. Institutes provide short-term, intensive educational opportunities for public health practitioners and other professionals whose schedules demand a flexible, nontraditional approach. 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.

Additional information regarding Summer, Fall and Winter Institutes may be found at www.jhsph.edu/academics/continuing_ed/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 are required. These materials must be received before you may start your position. The research interests of the School’s faculty can be found on the School’s website.

For more detailed information about postdoctoral training at the School visit www.jhsph.edu/ger/Postdocs.html.

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/centersinstitutes/list.
Student Affairs

STUDENT AFFAIRS’ OFFICES

Student Affairs Main Line
443-287-7277
www.jhsphealth.edu/student-life

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

Disability Support Services
410-955-3034
dss@jhsphealth.edu
www.jhsphealth.edu/student_affairs/disability

Financial Aid
410-955-3004
finaid@jhsphealth.edu
www.jhsphealth.edu/admissions/financial-aid

Records and Registration
410-955-3552
registra@jhsphealth.edu
www.jhsphealth.edu/student_affairs/registrar

Student Career Services
410-955-3034
careers@jhsphealth.edu
www.jhsphealth.edu/student_affairs/career

Student Life
410-502-2487
diverse@jhsphealth.edu
www.jhsphealth.edu/student_affairs/diversity

SOURCE
(Student Outreach Resource Center)
410-955-3880
source@jhsphealth.edu
www.jhsphealth.edu/source

ADDITIONAL SCHOOLWIDE OFFICES

Student Accounts and Business Services
410-955-5725
bursar@jhsphealth.edu
www.jhsphealth.edu/studentaccts

Housing Office
410-955-3905
www.hopkinsmedicine.org/som/students/life/housing

International Services
410-955-3371
www.hopkinsmedicine.org/intlsvcs

International Society
410-955-3370
internationalsociety@jhmi.edu
www.hopkinsmedicine.org/intlsvcs/jhis/index.asp.htm

Student Funding Resources
sfr@jhsphealth.edu
www.jhsphealth.edu/SFR

Student Affairs is a comprehensive student services unit in the Johns Hopkins Bloomberg School of Public Health advising students, faculty and staff on academic policies, financial support and information management. Student Affairs helps create links between the academic mission of the School and public health careers. Student Affairs brings together the functions of several offices, and collaborates with many other units, to serve students from the time of their initial inquiry through graduation and beyond.
Life in Baltimore

Baltimore Facts
• Population: 620,961
• Climate
  Like much of the Mid-Atlantic, Baltimore experiences all four seasons.
  – Average winter temperature: 34.1°F, with 2-3 snowfalls
  – Average summer temperature: 72.7°F, with high humidity
• Famous Baltimoreans
  Babe Ruth (baseball player), John Waters (film-maker), Cal Ripkin (baseball player), Michael Phelps (Olympic swimmer), Jada Pinket Smith (actor), Billie Holliday (singer), Edgar Allen Poe (writer), H.L. Menken (writer), Rembrant Peale (artist), John Astin (actor)—to name a few!
• City Nicknames
  Charm City, City of Firsts, City of Neighborhoods, Monument City
• Resources:
  www.baltimore.org
  www.baltimorecollege.org
  www.bop.org
  www.baltimoremagazine.net
  www.jhsph.edu/source
  www.visitmaryland.org

Additional Neighborhood Resources:
  www.livebaltimore.com
  www.baltimorecity.gov/Residents/Neighborhoods.aspx

Baltimore, Maryland is rich in history, culture and charming neighborhoods. Whether your interests lie in colonial history, fine arts or major league sports; Baltimore provides enriching opportunities outside the classroom.

CULTURE
Among Baltimore’s cultural resources is the Baltimore Museum of Art, which houses an outstanding collection of contemporary and classical painting and sculpture and features special exhibits, lectures and art classes. The Walters Art Museum has one of the most important collections of art in the U.S., tracing civilization from the ancient empires through the nineteenth century. Nestled at the base of historic Federal Hill, the American Visionary Art Museum displays works created by self-taught artists—the building itself is an artistic creation, having won many international and national awards for its design and beauty.

The Johns Hopkins Medical Institutions (JHMI) and the University 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 almost 40 years, the Shriver Hall Concert Series has been one of Baltimore’s premier classical music presenters, featuring the world’s finest classical chamber ensembles and soloists in a series of eight to ten concerts per season in the Shriver Auditorium on the Homewood campus. Regular and student subscriptions are available for the entire season.

Also based at Shriver Hall on the Homewood campus is one of the area’s leading community orchestras, the Hopkins Symphony Orchestra. Each year, this talented pool of Hopkins students, faculty and staff—as well as community members from as far away as Washington, D.C., and Virginia—present exciting symphonic and chamber concerts with world-renowned guest soloists. Discount tickets are available for all Johns Hopkins University affiliates. Hopkins students are admitted free with a valid student ID.

Fine music is also available from the Peabody Conservatory of Music, 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.

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 and at many other well-regarded local theaters.

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

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.
BALTIMORE NEIGHBORHOODS

Baltimore has over 225 neighborhoods, each with its own unique character.

Homewood campus refers to the Johns Hopkins University’s undergraduate and graduate campus for the Zanvyl Krieger School of Arts and Sciences, the Whiting School of Engineering and the School of Education. The campus is a welcoming and peaceful place of green grass, wide-spread ing trees and brick buildings. Bloomberg School students who live near or visit the Homewood campus can enjoy access to libraries, the performing arts, guest speakers and more. The neighborhood has a strong small business climate and an abundance of well-known cultural and educational resources, including the Baltimore Museum of Art. An eclectic mix of professional firms (especially in the fields of graphic design, advertising, architecture and printing) and ethnic restaurants are also nearby.

The Johns Hopkins Medical Institutions (JHMI) refers to the Bloomberg School of Public Health, the School of Medicine, the School of Nursing and the Johns Hopkins Hospital located in East Baltimore. JHMI lies east of the Inner Harbor and is just minutes from many of Baltimore’s entertainment and cultural centers, including Patterson Park (largest park in downtown Baltimore), Fells Point, Canton, Inner Harbor and the Walters Art Museum.


Mt. Vernon—area around Hopkins Peabody campus, on JHMI shuttle route, located just north of Inner Harbor, downtown feel, centered around Washington Monument.

Butchers Hill/Canton/Fells Point—located along Baltimore’s waterfront to the south and west of the Medical Institutions, lots of pubs, shops and cobblestoned streets.

Federal Hill/Locust Point—located along Baltimore’s waterfront south of the Inner Harbor.

Rodgers Forge/Towson/Lutherville/Timonium—suburbs north of the city, near shopping and along the Light Rail.

Columbia—suburb southwest of Baltimore in Howard County, midway between Baltimore and Washington, D.C.

For more information about housing options in Baltimore, visit the JHMI Housing website. Resources include a search engine to locate houses, apartments and roommates: www.hopkinsmedicine.org/som/students/life/housing.
How to Apply

APPLICATION TIPS

1) Do your research.
As seen in the pages of this book, the Bloomberg School offers many programs across the spectrum of public health. Read this book, review our website and contact the appropriate academic coordinator to learn which program will best fit your current interests and future goals.

2) Know your program’s application deadline. Deadlines vary by department, degree and sometimes degree track.
   ▶▶ For more information regarding application deadlines, flip to the chart on page 66 or visit www.jhsph.edu/admissions.

3) Know your program’s application requirements. Requirements vary by department, degree and sometimes degree track.
   ▶▶ For more information regarding application requirements, flip to the chart on page 64 or visit www.jhsph.edu/admissions.

4) Prepare.
Many of our departments do not conduct face-to-face interviews. Take time to insure your application is an accurate representation of you, your abilities and your goals.

5) APPLY EARLY!
Transcripts and other materials take time to order and arrive. We then require time to process them. Don’t wait until the last minute!

The Johns Hopkins Bloomberg School of Public Health hopes to provide you with the information you need to locate the academic program that best fits your interests. Please take time before you apply to ensure you are choosing the correct program. Selection of the wrong program could potentially slow or stop the processing of your application.

The Online Application
Apply online to any of our degree programs by visiting www.jhsph.edu/admissions.
The online application fee is $45. A separate application and application fee is required for each program and/or academic year you apply to. Application fees are non-refundable.
The Bloomberg School does not participate in SOPHAS.

Application Deadlines and Requirements
The Bloomberg School has over a dozen different application deadlines and a variety of requirements. Please carefully identify the application deadline and requirements for your particular program of interest.
In general, degree program applicants submit:
• online application
• three letters of recommendation
• GRE or other appropriate standardized test score
• official transcripts from ALL college-level educational institutions attended (applicants—domestic or international—who attended international institutions should pay special attention to our credentialing guideline)
• résumé or curriculum vitae
• personal statement
• TOEFL/IELTS scores (for international applicants from countries/education programs where English is not the official language)

Application requirements specific to each program may be found in the table on pages 64-65.

Please note, the time it takes for materials such as transcripts and test scores to arrive at our office may be longer than you think.

Please apply early!

Standardized Test Scores
Take time to prepare for your standardized exams. Results of these exams (e.g., GRE) are often 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 often take up to five weeks to reach our office.

Transcripts
Official academic records, transcripts or mark sheets—which include grades/marks for all courses and degrees earned, if applicable—from all colleges, universities, graduate or professional schools attended are required.

Please request your previous institutions to send your transcripts directly to Admissions Services at the address below. If you have the transcripts sent to you, do not open them. They will need to be mailed to our office and must arrive in a sealed envelope,
signed across the seal by the proper authority. Additionally, if the last name on the transcript differs from the last name on your application, please be sure to notify our office immediately.

If you are an international student or a U.S. student who has studied internationally, please pay particular attention to instructions below pertaining to academic records.

Admissions Services mailing address:
Admissions Services
Johns Hopkins Bloomberg School of Public Health
615 N. Wolfe Street, E1002
Baltimore, MD 21205-2179

International Academic Records
Applicants who will be submitting documentation from post-secondary institutions outside the U.S. will be required to have their documents evaluated by an external, U.S.-based credentials evaluation agency. We recommend that you use one of the three following agencies: WES, ECE or FIS. If you choose to use another credentials evaluation agency, please use a NACES-approved agency that meets the criteria of including a copy of the transcript or marks sheet in their credentialing report. If a copy of the transcript or marks sheet is not included in the credentialing report, the document will be considered insufficient for admissions review. If the credentialing report does include a copy of the transcript or marks sheet, and Admissions Services considers this evaluation sufficient, we will use this documentation for the review of your application and to satisfy official JHSPH transcript contingencies.

Study Abroad
If you are a domestic student, have completed a study abroad program and your courses, grades and credits clearly appear on your home school’s transcript, you do not need to submit a transcript from your study abroad institution. If your home school’s transcript does not provide this information, but the courses taken were restricted to one semester, you will need to provide an official transcript from your study abroad institution. If you took courses for more than one semester abroad and the information does not appear on your home school’s transcript, then we will require an evaluated transcript from your study abroad institution.

English Proficiency Exams
The Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) is required of all applicants for whom English is not their first language and who are applying from countries where English is not the language of instruction. The minimum requirements for TOEFL are 250 for computer-based or 100 for the Internet-based test. The minimum requirement for IELTS is a score of 7.

Exception: International applicants who have completed an accredited degree program within the U.S. are exempt from the English Language test requirement.

Guidance regarding which countries of origin are considered non-English speaking may be found at www.jhsph.edu/admissions/international-students/quick-reference-country-list.html.

Multiple Applications
We encourage you to have a clear focus regarding which program is best for you, but you’re welcome to apply to more than one.

If you wish to apply to more than one department at the Bloomberg School, you will need to create separate online application accounts and pay separate application fees ($45 each).

You do not need to submit duplicate copies of the supporting materials such as transcripts, test scores or letters of recommendation as these documents will be matched with both applications when your application is processed. You should submit separate statements to clearly identify your goals/intentions for each department. If you wish to have letters of recommendation specific to each program, you are welcome to request three separate letters for each degree/department to which you are applying.

In the Academic History section of the online application, there is a question that asks “Have you applied to JHSPH previously?” Please be sure to check “YES” to that question and provide the correct academic year and your documents will be matched with your new application when your file is processed.

Monitoring Your Application
Once you submit your application, you may monitor its status by logging into your online application account. Keep in mind, Admissions Services receives hundreds of application materials each day. In general, it takes up to two weeks for the Bloomberg School to process your materials and post them to your online account. Your patience is appreciated.

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 a Certificate
The application process for certificates offered through the Bloomberg School varies. The admissions requirements, course of study and application process for each certificate are detailed on the individual certificate’s webpage.

Questions? Contact Admissions Services at 410-955-3543, www.jhsph.edu/admissions or admiss@jhsph.edu.
Application Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>STATEMENT</th>
<th>RESUMÉ</th>
<th>TEST SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biochemistry and Molecular Biology (BMB)</strong></td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
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<tr>
<td>Master’s</td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
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<tr>
<td>Doctoral</td>
<td>required</td>
<td>required</td>
<td>GRE</td>
</tr>
<tr>
<td>Postdoctoral Fellowship</td>
<td>not required</td>
<td>required</td>
<td>not required</td>
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<tr>
<td><strong>Biostatistics (BIO)</strong></td>
<td>required</td>
<td>required</td>
<td>GRE</td>
</tr>
<tr>
<td>Master’s and Doctoral</td>
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<td>required</td>
<td>GRE</td>
</tr>
<tr>
<td>Postdoctoral Fellowship</td>
<td>not required</td>
<td>required</td>
<td>not required</td>
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<tr>
<td><strong>Environmental Health Sciences (EHS)</strong></td>
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<tr>
<td>Master’s and Doctoral</td>
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<td>required</td>
<td>GRE or MCAT</td>
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<tr>
<td>BA/MHS or BA/MSPH</td>
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<td>required</td>
<td>not required</td>
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<tr>
<td>Postdoctoral Fellowship</td>
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<td>not required</td>
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<tr>
<td><strong>Epidemiology (EPI)</strong></td>
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<tr>
<td>Master’s</td>
<td>required</td>
<td>required</td>
<td>GRE or MCAT</td>
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<tr>
<td>Doctoral</td>
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<td>GRE</td>
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<tr>
<td>Postdoctoral Fellowship</td>
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<td>not required</td>
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<tr>
<td><strong>Graduate Training Program in Clinical Investigation (GTPCI)</strong></td>
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<td>USMLE and GRE or MCAT</td>
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<tr>
<td>Master’s</td>
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<td>required</td>
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<tr>
<td>Doctoral</td>
<td>required</td>
<td>required</td>
<td>USMLE and GRE or MCAT</td>
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<tr>
<td><strong>Health, Behavior and Society (HBS)</strong></td>
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<td>GRE</td>
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<tr>
<td>Master’s and Doctoral</td>
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<td>required</td>
<td>GRE</td>
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<tr>
<td>Postdoctoral Fellowship</td>
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<tr>
<td><strong>Health Policy and Management (HPM)</strong></td>
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<tr>
<td>BA/MSPH</td>
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<tr>
<td>Master’s—MHA</td>
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<td>GRE or GMAT</td>
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<tr>
<td>Master’s—MHS, MSPH and MPP</td>
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<td>required</td>
<td>GRE</td>
</tr>
<tr>
<td>Doctoral—DrPH</td>
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*Listed TOEFL score minimums are computer-based and Internet-based tests respectively.

**See important application instructions for GTPCI at www.jhsph.edu/gtpci/degrees/application_instructions.html.

Application requirements for certificates can vary by certificate program. For the most accurate information, visit the webpage for the individual certificate.
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*TOEFL = Test of English as a Foreign Language
†IELTS = International English Language Testing System
‡GRE = Graduate Record Examination
§MCAT = Medical College Admission Test
**USMLE = United States Medical Licensing Examination
***LSAT = Law School Admission Test
### Application Deadlines

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<td>Master's programs</td>
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<td>BA/MHS (between jr &amp; sr yr of college)</td>
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<td>Molecular Microbiology and Immunology</td>
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<td>MHS program (Domestic applicants)</td>
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<td>Population, Family and Reproductive Health</td>
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<td>Full-time program (late June/early July start)**</td>
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<td>Part-time/Internet-based program (June start)</td>
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<td>Part-time/Internet-based program (Jan start)</td>
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<tr>
<td>Part-time/Internet-based program in Barcelona (Nov start)</td>
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<td>Residency Programs</td>
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<td>Occupational Medicine Residency</td>
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<td>General Preventive Medicine Residency</td>
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</table>

*For consideration for MPH scholarships, applicants must submit all admissions materials by the listed deadline.

**Applications received by the priority deadline are given first consideration for Recruitment Weekend and/or funding opportunities.

***Only fully completed applications submitted by the deadline will be reviewed.
### 2012-2013 Academic Calendar

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Registration Begins for Summer Institute Terms</td>
<td>F Feb 17</td>
</tr>
<tr>
<td>Registration Ends for Summer Institute Terms</td>
<td>varies per course</td>
</tr>
<tr>
<td>Internet-Based/Part-Time MPH New Student Orientation</td>
<td>Su June 3</td>
</tr>
<tr>
<td>Summer Institutes</td>
<td>Begin week of June 4</td>
</tr>
<tr>
<td>REGISTERED SUMMER TERM (37 class days)</td>
<td>Th July 5–F Aug 24</td>
</tr>
<tr>
<td>NEW MPH STUDENT ORIENTATION/REGISTRATION</td>
<td>M July 2–F Aug 31</td>
</tr>
<tr>
<td>INDEPENDENCE DAY HOLIDAY RECESS</td>
<td>W July 4</td>
</tr>
<tr>
<td>Instruction Begins for Summer Term</td>
<td>Th July 5</td>
</tr>
<tr>
<td>Add/Drop Period for Summer Term</td>
<td>Varies per course</td>
</tr>
<tr>
<td>Last Class Day of Summer Term</td>
<td>F Aug 24</td>
</tr>
<tr>
<td>2nd Term Registration Begins</td>
<td>F July 27</td>
</tr>
<tr>
<td>1st Term Registration Ends for Continuing and Special Students</td>
<td>F Aug 24</td>
</tr>
<tr>
<td>1ST TERM (39 class days)</td>
<td>T Sep 4–F Oct 26</td>
</tr>
<tr>
<td>NEW STUDENT ORIENTATION/REGISTRATION</td>
<td>W Aug 29–F Aug 31</td>
</tr>
<tr>
<td>Instruction Begins for 1st Term</td>
<td>T Sep 4</td>
</tr>
<tr>
<td>Add/Drop Period for 1st Term</td>
<td>M Sep 3–F Sep 14</td>
</tr>
<tr>
<td>LABOR DAY RECESS</td>
<td>M Sep 3</td>
</tr>
<tr>
<td>Last Class Day of 1st Term</td>
<td>F Oct 26</td>
</tr>
<tr>
<td>2nd Term Registration Ends for 1st Term</td>
<td>F Oct 19</td>
</tr>
<tr>
<td>Registration Begins for Winter Intersession</td>
<td>Th Oct 11</td>
</tr>
<tr>
<td>2ND TERM (38 class days)</td>
<td>M Oct 29–F Dec 21</td>
</tr>
<tr>
<td>Instruction Begins for 2nd Term</td>
<td>M Oct 29</td>
</tr>
<tr>
<td>Add/Drop Period for 2nd Term</td>
<td>M Oct 29–F Nov 9</td>
</tr>
<tr>
<td>THANKSGIVING RECESS</td>
<td>Th Nov 22–Su Nov 25</td>
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<tr>
<td>Last Class Day of 2nd Term</td>
<td>F Dec 21</td>
</tr>
<tr>
<td>Registration Begins for 3rd Term</td>
<td>T Nov 20</td>
</tr>
<tr>
<td>Winter Intersession Registration Ends</td>
<td>F Dec 7</td>
</tr>
<tr>
<td>3rd Term Registration Ends</td>
<td>F Jan 11</td>
</tr>
<tr>
<td>Internet-Based/Part-Time MPH New Student Orientation</td>
<td>Su Jan 6</td>
</tr>
<tr>
<td>WINTER INTERSESSION</td>
<td>M Jan 7–F Jan 18</td>
</tr>
<tr>
<td>Add/Drop Period for Winter Intersession</td>
<td>varies per course</td>
</tr>
<tr>
<td>MARTIN LUTHER KING, JR. HOLIDAY RECESS</td>
<td>M Jan 21</td>
</tr>
<tr>
<td>3RD TERM (39 class days)</td>
<td>T Jan 22–F Mar 15</td>
</tr>
<tr>
<td>Instruction Begins for 3rd Term</td>
<td>T Jan 22</td>
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<tr>
<td>Add/Drop Period for 3rd Term</td>
<td>T Jan 22–M Feb 4</td>
</tr>
<tr>
<td>Last Class Day of 3rd Term</td>
<td>F Mar 15</td>
</tr>
<tr>
<td>Registration Begins for 4th Term</td>
<td>M Feb 4</td>
</tr>
<tr>
<td>4th Term Registration Ends</td>
<td>F Mar 15</td>
</tr>
<tr>
<td>SPRING RECESS</td>
<td>M Mar 18–F Mar 22</td>
</tr>
<tr>
<td>4TH TERM (40 class days)</td>
<td>M Mar 25–F May 17</td>
</tr>
<tr>
<td>Instruction Begins for 4th Term</td>
<td>M Mar 25</td>
</tr>
<tr>
<td>Add/Drop Period for 4th Term</td>
<td>M Mar 25–F Apr 5</td>
</tr>
<tr>
<td>Last Class Day of 4th Term</td>
<td>F May 17</td>
</tr>
<tr>
<td>PUBLIC HEALTH CONVOCATION</td>
<td>W May 22</td>
</tr>
<tr>
<td>UNIVERSITY COMMENCEMENT</td>
<td>Th May 23</td>
</tr>
<tr>
<td>RESIDENCY PROGRAM ENDS</td>
<td>F June 28</td>
</tr>
</tbody>
</table>
Funding

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

►► For more information, regarding outside funding for education or research, visit the JHSPH Student Funding Resources website at www.jhsph.edu/SFR.

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

Funding opportunities vary by degree and department. Please contact your department of interest to learn more about available funding opportunities specific to your interests.

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

Some examples of scholarships available through the Bloomberg School of Public Health are below.

SOMMER SCHOLARS
Named in honor of Alfred Sommer, Dean Emeritus of the Johns Hopkins Bloomberg School of Public Health, the Hopkins Sommer Scholars Program aims to develop the next generation of public health leaders. Up to 15 Master of Public Health and 10 doctoral candidates are awarded scholarships each year. Students are selected for their superior academic abilities and leadership potential.

►► For more information on the Sommer Scholars Program, visit www.jhsph.edu/sommerscholars.

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

►► For more information on the Brown Scholarship, visit www.jhsph.edu/brownscholars.

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

►► For more information on the Johnson & Johnson Scholars Program, visit www.jhsph.edu/johnsonandjohnson.

GLOBAL HEALTH SCHOLARS
Offered by the Johns Hopkins Center for Global Health, the Global Health Scholarships program supports domestic and international students aspiring to work in an international context. These full-tuition scholarships are awarded to Master of Public Health or Master of Health Science students with extraordinary academic achievement and potential to contribute to the field of global health.

►► For more information on the Global Health Scholarship, visit www.hopkinsglobalhealth.org.
Tuition and Financial Aid

TUITION 2012-2013
The following tuition rates and fees are for the 2012-2013 academic year. This information is also available at www.jhsph.edu/admissions/financial-aid.

Doctoral, MHA, MHS, MPP, MSPH, ScM
per 9-month academic year (full time) $44,304
per term, full-time students (12+ credits) $11,076
per credit unit, part-time students (1-11) $923

Master of Public Health
per 11-month MPH academic year (full time) $55,380
per term, full-time students (12+ credits) $11,076
per credit unit, part-time students (1-11) $923

Postdoctoral Fellows
4 terms $800
per term $200

Special Students/Others
per term, full-time students (12+ credits) $11,076
per credit unit, part-time students (1-11) $923

ESTIMATED LIVING EXPENSES
Listed below are the estimated living costs for the 2012-2013 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>
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<tbody>
<tr>
<td>Housing</td>
<td>$8,820</td>
<td>$10,780</td>
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<tr>
<td>Food</td>
<td>$3,420</td>
<td>$4,180</td>
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<tr>
<td>Transportation</td>
<td>$2,700</td>
<td>$3,300</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$1,600</td>
<td>$2,000</td>
</tr>
<tr>
<td>Insurance</td>
<td>$2,560</td>
<td>$3,072</td>
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<tr>
<td>Personal</td>
<td>$1,800</td>
<td>$2,200</td>
</tr>
<tr>
<td>Total</td>
<td>$20,900</td>
<td>$25,532</td>
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</table>

The Johns Hopkins Bloomberg School of Public Health offers several financial aid programs to help students pay for educational expenses. In addition to federal loans and work-study, eligible students may receive institutional, state, and private scholarship funds.

For more information, visit the financial aid overview at: www.jhsph.edu/admissions/financial-aid.
We encourage you to explore our academic community through a visit, phone call or email. Review the following opportunities and get started!

**VISIT US ON THE WEB**
We’ve redesigned our website with you in mind! The new Bloomberg School website is rich with information and resources, especially for prospective students. Visit us at www.jhsph.edu.

*Please note: we’ve done our best to include accurate URLs in this book. However, the new website will continue to roll out after our press date. Please contact us with any problems you encounter.*

**Your Department or Program of Interest**
For more detailed information about your specific department or program of interest, or to compare programs, visit www.jhsph.edu/departments

**JHSPH Student Web Pages**
View a listing of current students, their degree programs, research interests and more! Contact them directly to ask any School-related questions you may have at http://commprojects.jhsph.edu/communications/students/default.cfm.

**Interactive Map of Worldwide Research**
Faculty and students of the Bloomberg School engage in research activities in more than 90 countries across a wide range of public health disciplines. The result is policy and programs that improve health and prevent disease. To see the types of research we are conducting, and where, check out our Global Projects Map at www.jhsph.edu/faculty/research/map.

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

**JHSPH Faculty Web Pages: Find an Expert!**
As recognized experts in fields ranging from AIDS to vitamin A, the faculty of the Bloomberg School can provide a wealth of insight and information to news organizations, prospective and current students, and the community at large. This guide to faculty research is always expanding and features those faculty members who have explicitly stated their field of expertise and identified their chosen areas of interest or are willing to discuss selected topics related to their field of study. To view a faculty list, visit www.jhsph.edu/faculty/directory/list.

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

- *Facebook*
  http://facebook.com/JohnsHopkinsSPH

- *LinkedIn*
  www.linkedin.com/company/3527

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

- *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.

**OpenCourseware**
JHSPH OpenCourseWare (OCW) provides independent learners and educators with free access to open educational resources from a wide variety of the School’s courses. For more information, visit http://ocw.jhsph.edu.

**VISIT US IN PERSON**
The Bloomberg School invites you to find out more by taking advantage of the following resources and events:

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

**Fall Open House**
Spend the day touring the Bloomberg School and meeting with Student Affairs staff, individual department coordinators and current students.

**Admitted Student Visitors Days**
Having trouble deciding which public health school is right for you? “Admitted Student Visitors Days” provide you the opportunity to learn more about our unique School and ask specific questions.

**University Calendar**
Want to join the Bloomberg School for an upcoming lecture or special event? Visit the University calendar at http://calendar.jhu.edu/calendar.

**Recruitment Calendar**
We might be in your area! Check out our recruiting schedule at www.jhsph.edu/admissions/meet-jhsph-in-your-area.
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 JHSPH 2013-2014 Academic Prospectus text pages were printed on FSC-certified Rolland Opaque 50% pcw. The cover was printed on FSC-certified Flo Gloss, 10% pcw.

The paper was supplied by a SmartWay Transport Partner. Since 2004, SmartWay Partners have saved 50 million barrels of oil and 16.5 million metric tons of CO2 and other emissions that contribute to climate change through a collaboration between the U.S. Environmental Protection Agency and the freight sector.

Environmental impact estimates were made using the Environmental Defense Fund calculator. For more information, visit [http://papercalculator.org](http://papercalculator.org).
JHSPH Admissions Services
Student Affairs
615 N. Wolfe Street, Suite E1002
Baltimore, Maryland 21205-2179

Walk-in Office Hours
Monday–Friday, 8 a.m.–4 p.m.

Phone Inquiries
Monday–Friday, 8 a.m.–12 p.m.

Phone
410-955-3543

Email
admiss@jhsph.edu

Website
www.jhsph.edu/admissions

Protecting Health, Saving Lives—*Millions at a Time*