

# Public Health Studies

Public Health combines a prevention orientation with a population perspective in pursuit of better health for all members of society. While physicians treat individual patients, public health professionals deal with big, urgent, and critically important issues such as access to health care, response to bioterrorism, or controlling outbreaks of epidemic disease.

The Public Health Studies Program offers undergraduates a major that links undergraduates to the world of public health through core courses taken on the Homewood campus, as well as electives taken in East Baltimore at the Johns Hopkins Bloomberg School of Public Health. Students select an emphasis in either natural sciences or social sciences to coordinate with their academic interests and future goals.

Core course work at Homewood includes Fundamentals of Epidemiology, Environment and Health, Fundamentals of Health Policy and Management, Biostatistics, as well as Calculus I, and two semesters each of English, and biology. Students choosing a natural science focus take the core of science and math courses required for eligibility to medical school. Students emphasizing the social sciences will formulate their own coherent academic program that includes a minimum of eight upper-level courses from departments such as Anthropology, Economics, Political Science, Sociology, or History of Science and Technology.

The Bloomberg School of Public Health of The Johns Hopkins University is the oldest and largest school of public health in the world. Although its primary function is to serve as a graduate school, seniors majoring in public health studies will take a semester worth of courses there in fulfilling their B.A. degree requirements.

Course work at the Bloomberg School of Public Health (BSPH) includes the following areas: health education, environmental health sciences, epidemiology, health finance and management, health policy, human genetics, immunology and infectious diseases, international health, maternal and child health, mental hygiene, nutrition, occupational medicine/health protection and practice, population studies, toxicology, and tropical medicine.

An honors option is available to public health studies majors with a minimum GPA of 3.3 in core course requirements at the end of the junior year. Students will arrange to work in a research, independent study, or field practicum capacity under the supervision of a faculty member who is affiliated with JHU, and the guidance of the director of the Public Health Studies program. Students will

register for 280.495 Honors in Public Health Seminar in the fall and 280.499 in the spring. Interested students should discuss their plans with the director of the Public Health Studies program before the start of the senior year.

The Public Health Studies office is located in the Greenhouse, Room 104 on the Homewood campus and may be consulted about the various courses, careers, and graduate programs in public health. Information can also be obtained by e-mailing [phstudies@jhu.edu](mailto:phstudies@jhu.edu).

## B.A./M.H.S.

Undergraduate students currently enrolled in the Johns Hopkins University Krieger School of Arts and Sciences program in public health have a unique opportunity to receive both bachelor's and master's degrees. The Johns Hopkins Bloomberg School of Public Health, departments of Environmental Health Sciences and Mental Health offer early graduate school admission to public health studies majors. One-half of the School of Public Health course credits earned toward the B.A. also apply toward the M.H.S. In addition, students in this program will receive co-advising from both schools to optimize their academic experience.

Applications for the B.A./M.H.S. degree are due in spring of the junior year. Public health majors may apply to any of the BSPH departments during their senior year, but credit requirements for the M.H.S. will be the same as for other students entering the M.H.S. program. Please note that admitted students must complete the B.A. degree before formally enrolling in the Bloomberg School.

## Program Directors

**Kelly Gebo**, Associate Professor (Medicine, Epidemiology); Director Public Health Studies Program

**James Goodyear**, Senior Lecturer (Public Health Studies Program); Associate Director Public Health Studies Program.

## The Faculty

**Miriam Alexander**, Assistant Professor (Population and Family Health Sciences); Director General Preventive Medicine Residency Program.

**Lee Bone**, Associate Professor (Health, Behavior and Society).

**Lynda Burton**, Associate Professor, Adjunct (Health, Behavior and Society, Health Services Research).

**Manning Feinleib**, Professor (Epidemiology).  
**Elizabeth Johnson**, Lecturer (Biostatistics).  
**Thomas Kensler**, Professor (Environmental Health Sciences).  
**Thomas LaVeist**, Professor (Health Policy and Management); Director Hopkins Center for Health Disparities Solutions.  
**Donald Steinwachs**, Professor (Health Policy and Management); Director, Health Services Research and Development Center.  
**James Tielsch**, Professor (International Health); Associate Chair for Academic Programs. (International Health, Global Disease Epidemiology and Control Program).

### Public Health Studies Program Advisory Board

**Whitney Austin**, Graduate Student (Health Policy & Management)  
**Timothy Baker**, Professor (International Health, Health Systems and Management).  
**Ron Brookmeyer**, Professor (Biostatistics); Chair Master of Public Health Program.  
**Richard Cone**, (Program Chair), Professor (Biophysics)  
**Steven David**, Professor (Political Science); Vice Dean for Program and Centers (Zanvyl Krieger School of Arts & Sciences).  
**Kelly Gebo**, Associate Professor (Medicine, Epidemiology); Director Public Health Studies Program  
**James Goodyear**, Senior Lecturer (Public Health Studies Program); Associate Director Public Health Studies Program.  
**Leon Gordis**, Professor (Epidemiology)  
**Ellen MacKenzie**, Professor (Health Policy and Management); Chair Fred and Julie Soper Professor in Health Policy and Management.  
**Adam Sheingate**, Associate Professor (Political Science).  
**James Yager**, Professor (Environmental Health Sciences, Toxicology); Senior Associate Dean for Academic Affairs; Edyth H. Schoenrich Professor in Preventive Medicine (Bloomberg School of Public Health).

The Public Health Studies Program Advisory Board reviews the progress and status of the Public Health Studies Program. Members provide advice and guidance on issues that are vital to a successful program, such as faculty appointments, curriculum reviews, utilization of university resources, and new funding opportunities

### Requirements for the B.A. Degree

All requirements must be taken as graded credits.

### Required Courses at Homewood

AS 060.__/220.__Two semesters of English	6
AS 110.106/108 Calculus I	4
EN 570.303 The Environment and Your Health	3
AS 280.340 Intro to Health Policy and Management	3
AS 280.345 Biostatistics in Public Health	4
AS 280.350 Fundamentals of Epidemiology	3

### Choose two semesters of Biology + one lab

AS 020.151/161 General Biology I + lab	9-10
AS 020.152/162 General Biology II + lab	
AS 020.305/315 Biochemistry + lab	9
AS 020.306/316 Cell Biology + lab	

### Elective Concentration at Homewood choose A or B:

#### A. Natural Science Emphasis

030.101 Introductory Chemistry + lab	4
030.102 Introductory Chemistry II + lab	4
171.101/103 General Physics I + lab	5
171.102/104 General Physics II + lab	5
110.107/109 Calculus II	4
030.205 Intro Organic Chemistry I	4
030.206 Intro Organic Chemistry II	4
030.225 Organic Chemistry Lab	3

Nine credits of 100- or 200-level social science courses. These must include two courses from the following departments: Anthropology, Economics, Sociology, or History of Science and Technology.

12 credits of 300- or higher of social science (S) credits.

#### B. Social Science Emphasis

15 credits of 100- or 200-level social science courses.

Eight 300-level courses, three from one department in group A; three from one department in group B; plus two electives from other social science departments; 24 credits minimum.

(a) Anthropology	(b) Economics
History	Geography/
Psychology	Environmental Science
Sociology	History of Science
	Political Science

### Requirements at BSPH

Twelve Homewood credits of courses taken at the Bloomberg School of Public Health. This is equivalent to 18 BSPH units. These courses may be taken in any department but exclude independent research/study. These courses may only be taken in the fourth year or upon completion of the required courses at Homewood.

## Courses

### 280.101 (S) Introduction to Public Health

The field of public health spans a broad range of disciplines and professions. The objectives of this course include familiarizing students with the U.S. public health model; providing a working knowledge of the tools and methods used in public health practice and research; increasing awareness of social and cultural factors embedded in current public health issues; and exposing students to the range of fields and occupations that fall within public health. Experts, primarily from the Bloomberg School of Public Health, will serve as guest lecturers.

Alexander 3 credits spring

### 280.156 (H,S) Invention of Tropical Disease

This course is an undergraduate seminar intended for freshmen and sophomores. It inquires into the origin of the idea of tropical disease as a legacy of European conquests and colonization in tropical latitudes, as well as a function of shifting paradigms within history of science.

Goodyear 3 credits fall

### 280.213 (S) Epidemiology of Violence: The Case of Latin America

An interpretation of post-Columbian Latin America from a public health perspective. Focusing on the role of violence—political, socio-economic, interpersonal—in the roots of underdevelopment.

Goodyear 3 credits spring

### 280.340 (S) Fundamentals of Health Policy and Management

This course will provide an overview of health policy in the United States with an emphasis on medical care policy and fundamentals of managing health services organizations. Through lectures and small-group discussions, students will develop a framework for analyzing health care policy problems and gain familiarity with current issues including managed care, Medicare, and the uninsured. Management implications will be explored, and students will learn current thinking regarding “best practices” in managing and improving health services organizations, including leadership development, strategic planning, resource management, process improvement, and monitoring performance indicators. Students will be evaluated on the basis of a midterm exam, final paper, and two to three short take-home assignments.

Steinwachs 3 credits spring

### 280.345 (S,Q) Biostatistics in Public Health

Using problem-based learning focusing on public health topics, students learn to describe and summarize data, make inferences regarding population parameters, and test hypotheses. Students use linear regression to describe continuous outcomes and logistic regression to predict proportions with a statistical analysis package, but prior computing experience is not required. Instruction is by lectures and laboratory sessions, with evaluation based on examinations, problem sets, and projects. Prerequisite: 3 years of high school mathematics.

Johnson 4 credits fall

### 280.350 (S) Fundamentals of Epidemiology

This course introduces principles and methods of epidemiologic investigation of both infectious and noninfectious diseases. Some of the methods by which properly conducted studies of distribution and dynamic behavior of disease in the population can contribute to an understanding of etiologic factors, modes of transmission, and pathogenesis of disease are illustrated. Instruction is by lectures, laboratory problems, and seminar discussions. Required for public health option students.

Feinleib 3 credits spring

### 280.375 (S) Cultural Factors in Public Health

LaVeist 3 credits spring

### 280.399 (S) Practicum in Community Health Care

Students will participate in community-based health services intervention programs, working with community leaders and health interventionists from the schools of Medicine and Public Health. Classroom presentation. Paper required.

Goodyear, Bone 3 credits fall

### 280.495 (S,W) Honors in Public Health Seminar

Using lectures, group projects, and writing assignments, this seminar is designed to assist Public Health Studies majors in writing a senior thesis. Students will formulate their topics, develop research skills, address issues of professional ethics, and begin drafts of their final projects. Participation in this seminar is required for students pursuing honors in PH studies.

3 credits fall

### 280.498-499 Honors in Public Health Studies

Restricted to public health studies majors. Consult public health adviser for procedure. Prerequisite: 280.495.

### 280.501-502 Internship in Public Health

Restricted to public health studies majors. Consult the public health studies adviser for procedure.

### 280.507-508 Independent Study in Public Health

Restricted to public health studies majors. Consult the public health adviser for procedure.

### 280.511-512 Research in Public Health

Restricted to public health studies majors. Consult the public health adviser for procedure.

A sample of public health-related courses offered regularly on the Homewood campus follows. Not all courses are offered every semester. Please refer to departmental listings for more complete information.

## Africana Studies

### 362.385 (S,W) Community Health Promotion

Furr-Holden 3 credits

**Anthropology**

**070.311 (H,S) Intro Medical Anthropology**  
Staff 3 credits

**070.315 (H,S) Advanced Topics in Medical Anthropology**  
Das 3 credits

**070.327 (H,S,W) Poverty's Life: Anthropologies of Health and Economy**  
Han 3 credits

**Economics**

**180.252 Economics of Discrimination**  
Morgan 3 credits

**180.280 (S) Population Economics**  
Slade 3 credits

**180.289 (S) Economics of Health**  
Salkever 3 credits

**Environmental Sciences**

**570.239 (E,N) Current/Emerging Environmental Issues**  
Roberts 3 credits

**570.303 (E,N) The Environment and Your Health**  
Required for all public health majors.  
Staff 3 credits

**570.406 (H,S) Environmental History**  
Schoenberger 3 credits

**570.427 (S) Natural Resources, Society, and Environment**  
Schoenberger 3 credits

**570.498 (E) Engineering Aspects of Public Health Crisis**  
Roberts 3 credits

**History**

**100.333 (H,S,W) Global Public Health Since WWII**  
Galambos 3 credits

**History of Science and Technology**

**140.106 (H,S) History of Medicine: 18th–20th Centuries**  
Fissell, Marks 3 credits

**140.336 (H,S) Health, Risk, and History**  
Mooney 3 credits

**140.382 (H,S) Sickness and Health in Early Modern Europe**  
Fissell 3 credits

**Philosophy**

**150.219 (H) Introduction to Bioethics**  
Bok 3 credits

**150.474 (H) Justice and Health**  
Bok 3 credits

**Political Science**

**190.354 (S,W) Politics of Health Policy**  
Sheingate 3 credits

**190.405 (S) Food Politics**  
Sheingate 3 credits

**195.477 (S) Introduction to Urban Policy**  
Newman 3 credits

**195.478 Urban Policy Internship**  
Newman 3 credits

**Psychological and Brain Sciences**

**200.132 (S) Introduction to Developmental Psychology**

**200.133 (S) Introduction to Social Psychology**

**200.214 (N,S) Brain Myths and Folk Psychology**

**200.330 (S) Psychology of Gender**

**200.339 (S) Issues in Counseling and Mental Health Care**

**Sociology**

**230.208 (S,W) Contemporary Perspectives in Race Relations**  
McDonald 3 credits

**230.305 (S) Poverty and Welfare Policy**  
Cherlin 3 credits

**230.313 (S) Space, Place, Poverty, and Race**  
DeLuca 3 credits

**230.316 (S) The African-American Family**  
McDonald 3 credits

**230.341 (S) Medical Sociology**  
Eaton 3 credits

**Interdepartmental**

**360.258 (H,S) Women's Health and the Life Course**  
Staff 3 credits