

Harvard University  
LONGWOOD CAMPUS



2008

HARVARD SCHOOL OF PUBLIC HEALTH

15th Annual

Summer Session



for Public Health Studies

JULY 1—JULY 25 • JULY 28—AUGUST 15



# 2008 SUMMER SESSION COURSE SCHEDULE

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## Summer 1 July 1–July 25

8:30–10:20	
BIO 202	Principles of Biostatistics: Part I
HPM 510	Introduction to Management of Health Care Organizations
10:30–12:20	
EPI 500	Fundamentals of Epidemiology
ID 251	Ethical Basis and Practice of Public Health*
1:30–3:20	
HPM 277	Current Issues in Health Policy*
HPM 530	Measuring and Analyzing the Outcomes of Health Care*
RDS 286	Decision Analysis in Clinical Research*
SHH 201	Society and Health
3:30–5:20	
HPM 276	Methods and Applications in Health Services Research*
ID 215	Environmental and Occupational Epidemiology
ID 251	Ethical Basis and Practice of Public Health*

## Summer 2 July 28–August 15

8:30–10:20	
BIO 203	Principles of Biostatistics: Part II
BIO 224	Survival Methods in Clinical Research*
10:30–12:20	
BIO 214	Principles of Clinical Trials*
EPI 202	Elements of Epidemiologic Research
HPM 209	The Economics of Health Policy
1:30–3:20	
EH 201	Introduction to Environmental Health
HPM 253	Improving Quality in Health Care*
HPM 512	Medical Informatics*
RDS 288	Methods for Decision Making*
SHH 250	Research on Social and Behavioral Health: A Practical Guide*
3:30–5:20	
BIO 234	Systematic Reviews and Meta-Analysis in Public Health and Clinical Medicine
BIO 501	Linear and Longitudinal Regression*
EPI 295	Pharmacoepidemiology: Introduction
HPM 299	Research with Large Databases*

\* Limited enrollment: prerequisites and faculty approval required.

## INTRODUCTION

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### Hot Topics

Each summer, faculty from the School of Public Health present a weekly seminar on topics of current interest in the field. These seminars are offered during lunchtime and are free to all Summer Session students. The seminars provide an opportunity for summer students to meet and talk informally with faculty from a range of disciplines.

Presentations from past years:

#### **How the Uninsured Have Changed and Why We Need to Restructure How We Pay for Health Insurance**

Katherine Swartz, Professor of Health Policy and Economics, Department of Health Policy and Management, HSPH

#### **Hungry? The Latest on What to Eat and Why**

Eric Rimm, Associate Professor in the Departments of Epidemiology and Nutrition Department of Epidemiology, Department of Nutrition, HSPH; Associate Professor of Medicine, HMS

#### **Responding to Recent Increases in Urban Youth Violence: The Public Health Role**

Deborah Prothrow-Stith, Professor of the Practice of Public Health, Department of Health Policy and Management; Associate Dean for Faculty Diversity, HSPH

#### **DiversityData: An Interactive Website on Opportunity in Metropolitan America**

Dolores Acevedo-Garcia, Associate Professor, Department of Society, Human Development and Health, HSPH

#### **Boston Air Pollution and Its Effects**

Doug Dockery, Professor of Environmental Epidemiology, HSPH; Associate Professor of Medicine, HMS

#### **Sick at Heart: The Pathophysiology of Negative Emotions**

Laura Kubzansky, Associate Professor, Department of Society, Human Development and Health, HSPH

### About the Harvard School of Public Health

The Harvard School of Public Health (HSPH) is dedicated to excellence in training public health practitioners and researchers. The School's distinguished faculty members are engaged in teaching, research, and working with public health leaders locally, nationally, and internationally.

The School's main buildings for research, teaching and administration are located in the heart of Boston's Longwood Campus. The facilities adjoin those of the Harvard Medical School, Harvard School of Dental Medicine, and Harvard-affiliated hospitals such as Brigham and Women's, the Dana-Farber Cancer Institute, and Children's Hospital.

### Summer Session for Public Health Studies

The Summer Session provides the same academically rigorous courses offered to degree candidates during the regular academic year, only shortened from 8 weeks to 3 weeks and meeting daily. Thus, the courses are very fast-paced and intense, requiring the full participation of the student. These courses are taught by Harvard faculty.

Course work in epidemiology; biostatistics; statistical analysis; society, human development, and health; economics; environmental health; and health care management provides the ground work for advanced study in every field of public health. These courses are essential for the practice of public health, for population-based primary care, and for evaluating clinical effectiveness in specialty medicine.

The Summer Session is intended for health professionals in training or those who are considering a mid-career change into public health and feel the need to strengthen their skills. Participants include public health professionals, primary care practitioners, physi-



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**“The most important thing for me was the quality of the teaching and it was amazing!”**

— Valéry Lavergne, M.D., D.E.S.  
Current MPH Degree Candidate in the  
Quantitative Methods Summer-Only Program  
Montreal, Quebec



### Summer-Only Master of Public Health Degree Program

(Quantitative Methods or Clinical Effectiveness concentrations only)

Qualified students with an interest in the areas of Quantitative Methods or Clinical Effectiveness may complete the MPH degree through courses offered in the Summer Session. The degree requirements take three years to complete, over three consecutive summers. Please note: there is a limited selection of summer courses. The summer-only MPH degree program is available only for the two concentrations noted. Students selecting a summer-only degree may not take courses during the academic year. For more information, contact the Admissions Office (617-432-1031 or [admisofc@hsph.harvard.edu](mailto:admisofc@hsph.harvard.edu)) or Roberta Gianfortoni, Assistant Dean for Professional Education, ([roberta@hsph.harvard.edu](mailto:roberta@hsph.harvard.edu)).

cians engaged in the evaluation of health care delivery and management, physicians in training (including preventive medicine residents and medical students in an MD/MPH joint degree program), and candidates for a part-time MPH program.

During the 2007 Summer Session, 150 students from across the U.S., Asia, Canada, Europe, and Latin America attended the School. More than 50% of those students were physicians; the others included mid-level managers, lawyers, other health professionals, and graduate students.

Current HSPH students and students accepted for admission to a 2008 degree program may have greater flexibility in their course selection during the regular academic year by taking courses in the Summer Session. **Admission to the Summer Session requires a separate application for all students.**

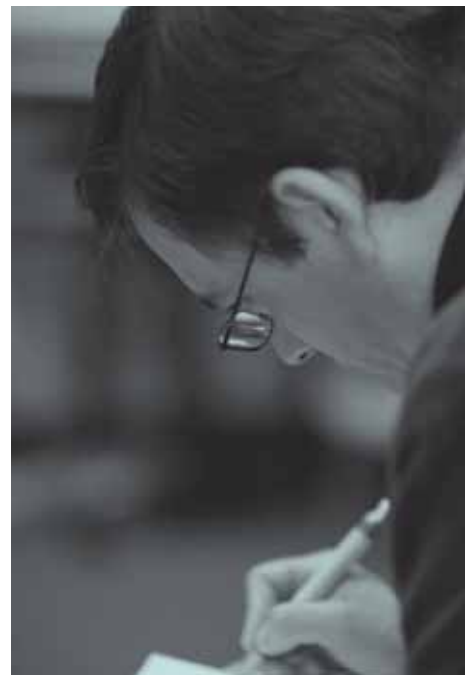
### Curriculum

Students may complete one or two 2.5-credit courses per session, for a maximum of 5 credits per session or a total of 10 for the two Summer Sessions. The course work is very intense and fast-paced. Students registered for two courses in one session should not schedule other work commitments.

### Degree Programs

HSPH offers programs leading to the graduate degrees of Master of Public Health (MPH), Master of Science (SM) and doctoral programs (SD and DPH) in public health. Courses taken in the summer program or in the Program in Clinical Effectiveness may count toward academic credit for the MPH, SM, or doctoral degrees. To receive further information and application materials for degree candidacy, contact Hildi Keary, Administrative Assistant (617-432-1052 or [hkeary@hsph.harvard.edu](mailto:hkeary@hsph.harvard.edu)).

Please note: Qualified participants may seek admission to a degree program at HSPH. Admission to or academic performance in the Summer Session does not guarantee admission to the School's other full and part-time academic degree programs, which require a separate application and admissions process.



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**“The summer gave me a glimpse into the opportunities and rewards that Harvard can provide. The diversity of my summer classmates along with the interactive classroom environment was truly an invigorating experience. The staff did an amazing job in providing a friendly and rewarding experience.”**

— Greg Adkins, M.D., M.B.A  
Current MPH Degree Candidate in Health Care  
Management and Policy  
New York, NY

## SUMMER COURSE OFFERINGS • 2008

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[Summer 1] and [Summer 2] following the course number indicates the Session:

Summer 1: July 1–July 25

Summer 2: July 28–August 15

Please note: An asterisk (\*) following a course title indicates limited enrollment; prerequisites and faculty approval required. Please review all course notes for any prior preparation or requirements.

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### BIostatISTICS

#### **BIO 202 [Summer 1] Principles of Biostatistics: Part I**

Instructor: Dr. Marcia Testa

8:30 a.m.–10:20 a.m. (Mon.–Fri.,

lecture sessions) (Lab TBA)

Lectures, laboratories. Five 2-hour labs

each week (required). 2.5 credits

This course is the first part of introductory biostatistics and acquaints the student with the basic concepts and methods of biostatistics, their applications, and their interpretation. The material covered includes data presentation, numerical summary measures, rates and standardization, and life tables. Probability is introduced to quantify uncertainty, especially as it pertains to diagnostic and screening methods. Also covered are sampling distributions so that students may be introduced to confidence intervals and hypothesis testing. The computer is used throughout the course, and the student will gain familiarity with the software package STATA. Please note: Students enrolled in Biostatistics 202 are required to attend two hours of lab sessions each day in addition to a daily lecture. Course note: Applicants planning to take biostatistics are expected to have a working knowledge of basic college mathematics and familiarity with the use of personal computers. A self-assessment test is available on request by calling Hildi Keary at 617-432-1052 to help you evaluate your readiness for this course. Students taking BIO 202 and BIO 203 will not be given credit for BIO 200 or BIO 201 in the academic year.

#### **BIO 203 [Summer 2] Principles of Biostatistics: Part II**

Instructor: Dr. Hongyu Jiang

8:30 a.m.–10:20 a.m. (Mon.–Fri., lecture sessions) (Lab TBA)

Lectures, laboratories. Five 2-hour labs

each week (required). 2.5 credits

This course is the second part of introductory biostatistics; it continues to explore inference in greater depth. Lectures and laboratory exercises will emphasize applied data analysis, building upon the fundamentals emphasized in BIO 202. Topics covered include the comparison of two means, analysis of variance, nonparametric methods, inference on proportions, contingency tables, multiple 2 x 2 tables, correlation, simple regression, multiple regression and logistic regression, analysis of survival data, and sampling theory. The computer is used throughout the course, and the student will gain more familiarity with STATA. Please note: Students enrolled in Biostatistics 203 are required to attend two hours of lab sessions each day in addition to a daily lecture. Course note: Requires BIO 202. Students who take BIO 202 and BIO 203 will not be given credit for BIO 200 or BIO 201.

#### **BIO 214 [Summer 2] Principles of Clinical Trials\***

Instructors: Dr. Kenneth Stanley,

Dr. Richard Gelber

10:30 a.m.–12:20 p.m. (Mon.–Fri.)

Lectures. 2.5 credits

Designed for individuals interested in the scientific, policy, and management aspects of clinical trials. Topics include types of clinical research, study design, treatment allocation, randomization and stratification, quality control, sample size requirements, patient consent, and interpretation of results. Students design a clinical investigation in their own field of interest, write a protocol for it, and critique recently published medical literature. Course note: A course in introductory statistics or signature of instructor is required.

#### **BIO 224 [Summer 2] Survival Methods in Clinical Research\***

Instructor: Dr. Roger Davis

8:30 a.m.–10:20 a.m. (Mon.–Fri.)

Lectures. 2.5 credits

This course will cover the common approaches to the display and analysis of survival data, including Kaplan-Meier curves, log rank tests, and Cox proportional hazards regression. Computing, using SAS, will be an integral component of the course. Course note: Students should have taken an intermediate-level course in biostatistics: BIO 210, BIO 211, BIO 213 or equivalent.

#### **BIO 234 [Summer 2] Systematic Reviews and Meta-Analysis in Public Health and Clinical Medicine**

Instructor: Dr. Michael Stoto

3:30 p.m.–5:20 p.m. (Mon.–Fri.)

Lectures. 2.5 credits

Concerned with the use of existing data to inform clinical decision making and health care policy, the course focuses on research synthesis (meta-analysis). The principles of meta-analytic statistical methods are reviewed, and the application of these to data sets is explored. Application of methods includes considerations for clinical trials and observation studies. The use of meta-analysis to explore data and identify sources of variation among studies is emphasized, as is the use of meta-analysis to identify future research questions. Students should have knowledge of biostatistical and/or epidemiologic methods. Course activities: Students prepare a protocol to conduct a meta-analysis and use

existing meta-analysis software to apply principles outlined in the course to data sets provided for this purpose. This course is equivalent to EPI 233 and was formerly ID 233; credit will not be given for both courses.

### **BIO 501 [Summer 2] Linear and Longitudinal Regression\***

Instructor: Garrett Fitzmaurice  
3:30 p.m.–5:20 p.m. (Mon.–Fri.)  
Lectures, laboratories. 2.5 credits

This course is intended for students who are already very comfortable with fundamental techniques in statistics. The course will cover methods for building and interpreting linear regression models, including statistical assumptions and diagnostics, estimation and testing, and model building techniques. These models will be extended to handle data arising from longitudinal studies employing repeated measurement of subjects over time. Lectures will be accompanied by computing exercises using the SAS statistical package. Course note: BIO 200, or BIO 201, or BIO 206, or BIO 202 and BIO 203 is required. Ordinal grading option only. Lab or section will be announced at first meeting.

### **EH 201 [Summer 2] Introduction to Environmental Health**

Instructors: Dr. Rose Goldman, Dr. Molly Kile  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, class discussions. 2.5 credits

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## **ENVIRONMENTAL HEALTH**

This course offers a general introduction to environmental health from local to global, addressing fundamental topics and current controversies. The first half of the course covers core topics that prepare students to more fully understand and address environmental health issues: toxicology, exposure assessment, risk assessment/risk management, air pollution, water pollution, and the built environment/urban sprawl. Using the tools from the first half, students then learn about: occupational health, children's health and the environment, injuries, climate change and health, environmental law and policies, debates concerning pesticide use, and environmental justice. Students will actively engage with the course material through case discussions and review of environment-related current events. This course provides an excellent introductory foundation in environmental health for all professional master's degree candidates, whether or not specializing in environmental health. The course fulfills the environmental health requirement for all professional master's degree programs.

### **EPI 500 [Summer 1] Fundamentals of Epidemiology (formerly EPI 200)**

Instructor: Dr. Albert Hofman  
10:30 a.m.–12:20 p.m. (Mon.–Fri.)  
Lectures, class discussion, seminars. 2.5 credits

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## **EPIDEMIOLOGY**

This course will provide an orientation to epidemiology as a basic science for public health and clinical medicine. It will address the principles of the quantitative approach to clinical and public health problems. The course will discuss measures of frequency and association, introduce the design and validity of epidemiologic research, and give an overview of data analysis. This course is an introduction to the skills needed by public health professionals to interpret critically the epidemiologic literature. It will provide students with the principles and practical experience needed to initiate the development of these skills. Lectures are complemented by seminars devoted to case studies, exercises, or critique of current examples of epidemiologic studies. Course activities: Class discussion, seminar, quiz, final exam. Course note: Credit is not given for more than one of EPI 500, 201, or 208.

### **EPI 202 [Summer 2] Elements of Epidemiologic Research**

Instructor: Dr. Murray Mittleman  
10:30 a.m.–12:20 p.m. (Mon.–Fri.)  
Lectures, seminars. 2.5 credits  
*See interdepartmental listing for additional epidemiology offering.*

Introduces elements of study design, data analysis and inference in epidemiologic research. Principles and methods are illustrated with examples, and reviewed through homework and in-class exercises. May serve as an introduction to more advanced study or as a concluding course for those desiring a working knowledge of epidemiologic methods. Course note: EPI 200, EPI 201, EPI 208, or EPI 500 required – concurrent enrollment permitted; BIO 200, BIO 201, or BIO 202 and BIO 203 required – concurrent enrollment permitted.

### **EPI 295 [Summer 2] Pharmacoepidemiology: Introduction**

Instructor: K. Arnold Chan  
3:30 p.m.–5:20 p.m. (Mon.– Fri.)  
Lectures, small group discussions. 2.5 credits

This is an introductory course on pharmacoepidemiology. How the principals of modern epidemiology methods are used to evaluate the safety, effectiveness, and utilization patterns of drugs, vaccines, and medical devices will be discussed. Examples of descriptive epidemiology studies, cohort studies, case control studies, and intervention studies will be drawn from recent literature to illustrate the application of relevant methods and the challenges in drug safety assessment. Drug safety assessment from the pharmaceutical and biotechnology industry perspective and the regulatory perspective will be discussed. Practical issues such as data sources, ethical principles, and the advanced methodologic topics, such as confounding by indication and misclassification and the analytic methods to address them will be briefly introduced. Course activities: Written and oral group projects,

individual class presentations, class discussion. Course note: EPI 200, EPI 208, or EPI 500 or permission of instructor required. Recommended for students interested in a general overview of pharmacoepidemiology. Credits can not be given for students who have taken EPI 221 (or vice versa). A minimum enrollment of 8 students is required for course to be offered.

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## HEALTH POLICY AND MANAGEMENT

### HPM 209 [Summer 2] Economics for Health Policy

Instructor: Dr. Meredith Rosenthal  
10:30 a.m.–12:20 p.m. (Mon.–Fri.)  
Lectures, class discussion, seminars.  
2.5 credits

Students will learn how to analyze current health policy issues through the application of basic economic principles. No previous economics training is required. The course will begin with an introduction to the U.S. health care “system” because we will be using examples drawn almost exclusively from the American context. The concepts we will be learning, however, are widely generalizable and students whose interests and experiences extend beyond the U.S. are welcomed. Among the topics we will discuss are health insurance coverage, benefit design, physician payment incentives, public reporting of quality information, and the pharmaceutical industry.

### HPM 253 [Summer 2] Improving Quality in Health Care\*

Instructor: Maureen Bisognano  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits

This course is designed for practicing physicians and those with an interest in health care management. It will explore both the theory and practical methods being employed to make improvement in health systems. Clinical cases, organizational lessons and interactive learning modules will guide the learners to an understanding of the necessary elements for improvement and how to identify and eliminate barriers to change.

### HPM 276 [Summer 1] Methods and Applications in Health Services Research\*

Instructor: Dr. Arnold Epstein,  
3:30 p.m.–5:20 p.m. (Mon.–Fri.)  
Lectures. 2.5 credits

This course introduces students to the interdisciplinary field of health services research. The course covers theory, methodology, and applications using a highly interactive teaching approach. Individual sessions will be devoted to research design, analyses of large databases, cost effectiveness analyses, survey methodology, assessment of health status, assessment of quality, measurement of racial, ethnic, and socioeconomic disparities, appropriateness of care, risk adjustment, and statistical techniques pertinent to health services research. There will be one or more sessions reviewing managerial applications such as case management, use of hospital information systems, and targeting for high-risk patients.

This course will also include class sessions and exercises devoted to critique of journal articles. These will supplement didactic presentations and will target development of skills in performing research and writing papers. In the final part of the course, students will work in small groups to critique a “grant proposal” designed to study an important problem in health services or health policy research. Each group of students will write up their critique in a format typical for a federal study section. This effort is designed to educate students on important aspects of grant writing.

### HPM 277 [Summer 1] Current Issues in Health Policy\*

Instructors: Dr. Arnold Epstein,  
Dr. Anthony Komaroff  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures. 2.5 credits

This course introduces students to the major health policy issues facing the United States today. The course focuses on the roles of hospitals, doctors, private and government insurance, and different systems for organizing and financing care (such as traditional fee-for-service, HMOs, and other forms of “managed care”). Individual sessions in the course will be devoted to topics such as medical malpractice, policy issues related to pharmacological therapy, physician payment, academic health centers, workforce, physician profiling, managed care, Medicare and Medicaid.

### HPM 299 [Summer 2] Research With Large Databases\*

Instructor: Dr. John Ayanian  
3:30 p.m.–5:20 p.m. (Mon.–Fri.)  
Lectures. 2.5 credits

Research with Large Databases addresses potential uses of existing large, administrative, clinical, and survey databases to study important questions regarding clinical risk factors, treatment, outcomes and health policy. Strengths and limitations of large databases that are commonly used for research will be considered, and special attention will be devoted to large federal databases that are readily available to new investigators. Practical issues in obtaining, linking and analyzing large databases will be emphasized in the course and key statistical issues will be addressed, including risk-adjustment and sample weights. Students will evaluate published studies based on large databases and develop a proposal for analyzing a specific research question with a large database. Course note: EPI 208, EPI 200, or EPI 500 and BIO 206 or BIO 202 required. No auditors.

**HPM 510 [Summer 1] Introduction to Management of Health Care Organizations**

Instructor: Dr. Marc Roberts  
8:30 a.m.–10:20 a.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits

**HPM 512 [Summer 2] Medical Informatics\***

Instructors: Dr. David Bates,  
Dr. Blackford Middleton, Dr. Jonathan Einbinder  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, class discussion, seminars.  
2.5 credits

**HPM 530 [Summer 1] Measuring and Analyzing the Outcomes of Health Care**

Instructors: Dr. Marcia Testa, Dr. Donald Simonson  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits

**RDS 286 [Summer 1] Decision Analysis in Clinical Research\***

Instructor: Dr. Milton Weinstein  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures. 2.5 credits  
*See interdepartmental listing for additional Health Policy and Management offering.*

**RDS 288 [Summer 2] Methods for Decision Making\***

Instructor: Dr. M.G. Myriam Hunink  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures. 2.5 credits  
*See interdepartmental listing for additional Health Policy and Management offering.*

This course provides an introduction to two of the major tasks confronting managers of healthcare organizations. Building on an introduction to organizational theory, the course focuses on the main problems of organizational strategy and the management of human resources. This course makes extensive use of case-based classroom discussions as well as selected conceptual readings.

Medical Informatics and health information technology are increasingly critical for delivery of safe, effective health care, and also for research, and management. Health information technology will likely transform health care in the coming years, and electronic health records represent a treasure trove of data for any one interested in clinical effectiveness research, and a vehicle for improving health care delivery. In this course we describe the core issues in the field of medical informatics, survey the methods used to perform clinical effectiveness research using clinical systems, give examples of healthcare improvement using health information technology, and describe how to evaluate clinical systems interventions. Major topics include: the impact of clinical systems with a focus on clinical decision support, evaluation methods, obtaining information from clinical systems, and the role of informatics standards. Issues such as confidentiality and privacy, organizational factors, interoperability, and return on genomics, patient computing, biosurveillance, and health care policy will also be highlighted. You do not need to be a programmer or to have medical informatics as a primary interest to take this course. Course activities: Students will write a paper about a proposed analysis using data from a clinical information system. Course note: Ordinal grading only.

This course emphasizes introductory concepts, methods, and practical procedures for measuring and analyzing patients' health status, quality of life, satisfaction and cost-effectiveness for health outcomes research. The course reviews the fundamentals of health outcomes research methods necessary for 1) demonstrating improvement in patient outcomes, 2) controlling costs and allocating resources, 3) implementing disease management programs and 4) making effective public health, health technology and clinical decisions. Statistical methods needed to evaluate and use scales and indices are also presented and discussed. The course would be useful to public health and clinical researchers who must critically review and utilize outcomes data for public health, health care and clinical decision-making. The course should enable students to 1) conceptually define the meaning and purpose of outcomes research, 2) understand the role of epidemiology, health economics and database and information technology in conducting outcomes research, 3) evaluate the usefulness and utility of outcomes measures, 4) recognize the different types of measures used in outcomes research, including clinical, health status, quality-of-life, work/role performance, health care utilization, and patient satisfaction, 5) adopt new methods for modeling patient responses, interpret the meaning of measurement concepts and obtain a basic appreciation of the statistical analyses appropriate for outcomes research, 6) locate available research-quality instruments for measuring health care outcomes in order to make informed choices among existing instruments and 7) interpret the results of health outcomes research. Course note: No auditors.

Introduces the following topics: decision analysis methods relevant to clinical decision making and clinical research; the use of probability to express uncertainty; Bayes theorem and evaluation of diagnostic test strategies; sensitivity analysis; utility theory and its use to express patient preferences for health outcomes; cost-effectiveness analysis in clinical research and health policy; and uses and limits of decision analysis and cost-effectiveness in clinical decision making and research design. Course note: Limited enrollment; priority will be given to participants in the Summer Program in Clinical Effectiveness.

This course deals with intermediate-level topics in the field of medical decision making. Topics that will be addressed include modeling issues, evaluation of diagnostic tests, ROC and summary ROC analysis, utility assessment, multi-attribute utility theory, Markov process models, Monte Carlo simulation modeling, methods for sensitivity analysis, value of information analysis, and behavioral decision making. The course will focus on the practical application of techniques and will include published examples and a computer practicum. This is not an introductory course. Course note: RDS 280 or RDS 286 and some knowledge of probability and statistics required.

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## INTERDEPARTMENTAL

### ID 215 [Summer 1] Environmental and Occupational Epidemiology

Instructor: Dr. Francine Laden  
3:30 p.m.–5:20 p.m. (Mon.–Fri.) Lectures,  
case studies. 2.5 credits

### ID 251 [Summer 1] Ethical Basis of the Practice of Public Health\*

Instructors: Dr. Michelle Mello,  
Dr. David Studdert  
10:30 a.m.–12:20 p.m. (Mon.–Fri.) or  
3:30 p.m.–5:20 p.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits

This course has three objectives: to review methods used in evaluating the health effects of physical and chemical agents in the environment, to review available evidence on the health effects of such exposures, and to consider policy questions raised by the scientific evidence. Topics include lectures on methodology, seminars on the review and criticism of current literature, and presentations by outside experts on specific environmental and occupational health issues of current interest. Course note: EPI 200, EPI 201, EPI 208, or EPI 500 required; BIO 200, BIO 201, BIO 205, BIO 206, or BIO 202 and BIO 203 required (concurrent enrollment permitted). Fulfills the environmental health core requirement for all professional master's degree programs.

Ethical Basis of the Practice of Public Health is intended to provide physicians and public health professionals with an understanding of some of the major ethical issues confronting health care delivery and public health practice today and familiarity with some of the moral philosophical ideas that have shaped our thinking about them. Topics include rationing of health care resources, genetic screening, access and “rights” to health care, confidentiality, informed consent, research ethics, “fetal abuse,” and personal responsibility for health. Students will learn to analyze complex ethical problems and apply philosophical principles and theories to reach ethical conclusions and craft policy recommendations. The course meets in two sections that cover identical material.

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## SOCIETY, HUMAN DEVELOPMENT, AND HEALTH

### SHH 201 [Summer 1] Society and Health

Instructor: Dr. Ichiro Kawachi  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits  
*See interdepartmental listing for additional Society, Human Development, and Health offering.*

Analyzes major social variables that affect population health: poverty, social class, gender, race, family, community, work, behavioral risks, and coping resources. Examines health consequences of social and economic policies, and the potential role of specific social interventions. Reviews empirical and theoretical literature on mechanisms and processes that mediate between social factors and their health effects, and discusses alternative models for advancing public health. Course activities: short written assignments, class discussion, final examination. Course note: Fulfills a core course requirement for students pursuing an MPH degree at the Harvard School of Public Health. Fulfills a departmental requirement for students in the Department of Society, Human Development, and Health.

### SHH 250 [Summer 2] Research on Social and Behavioral Health: A Practical Guide\*

Instructor: Dr. Jennifer Haas  
1:30 p.m.–3:20 p.m. (Mon.–Fri.)  
Lectures, case studies. 2.5 credits

This course is an introduction to research methods that are important to designing, conducting, and evaluating research that involves the assessment of social or behavioral aspects of health. The course will cover study design, measurement, data collection, and analytic issues that are important to this area of public health research. Because surveys are an important tool for social and behavioral research, a major component of this course will focus on survey design and administration. The course will present introductory level research methods and survey design with a focus on practical applications. Students will critique published studies that examine specific aspects of social and behavioral health. Students will be expected to prepare a brief proposal for a study of an aspect of social/behavioral health that uses a survey instrument, and draft the corresponding survey instrument. The course will consist of 15 two-hour lectures with readings, in class critique of relevant studies and measures, and a final project. Requirements are completing the required reading, active participation in class, and successful completion of the project.

**FYI: Student course evaluations from prior years are available on-line at:**  
<http://www.hsph.harvard.edu/administrative-offices/registrar/course-evaluations/>  
**Please note: Course numbers and instructors may have changed.**

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**“The Summer Session was an excellent opportunity to combine an intense, unique learning program with interacting with amazing people with a passion for public health.”**

— Rosie Dawkins, M.B.B.S.  
Current MPH Degree Candidate in International Health  
North Melbourne, Australia

**John Z. Ayanian, MD** (Harvard Medical School), MPP (Kennedy School of Government); Professor of Health Policy and Management; Professor of Medicine and Health Care Policy, Harvard Medical School. Access to care; quality of care; cardiovascular disease; cancer; primary and specialty care; health care disparities.

**David W. Bates, MD** (Johns Hopkins Medical School), MSc (HSPH); Professor of Medicine and Health Care Policy. Safety, quality, informatics, improving safety and quality using information technology, primary care.

**Maureen Bisognano, MS** (Boston University), Instructor in Health Policy and Management, Executive Vice President and COO, Institute for Healthcare Improvement. Quality improvement in healthcare; strategic planning; leadership.

**Roger B. Davis, MA** (University of Rochester), ScD (Harvard University); Associate Professor in the Department of Biostatistics. Associate Professor of Medicine, Harvard Medical School. Design and analysis of clinical trials; recursive partitioning methods; collaboration with medical investigators; health services research.

**Jonathan Einbinder, MD** (Columbia P&S), MPH (HSPH); Corporate Manager for Quality Data Management, Partners HealthCare System. Practicing general internist at Brigham and Women's Hospital. Measuring and improving quality using information systems, with a particular focus on data warehousing, population registries, and clinical dashboards.

**Arnold M. Epstein, MA** (Harvard University), MD (Duke University); John H. Foster Professor and Chair, Department of Health Policy and Management, Professor of Medicine, Harvard Medical School. Quality of care and disparities in care for disadvantaged populations.

**Garrett M. Fitzmaurice, ScD** (Harvard University); Associate Professor in the Department of Biostatistics; Associate Professor of Psychiatry, Harvard Medical School. Design and analysis of longitudinal and repeated measures studies; missing data methods; collaboration with medical investigators.

**Richard D. Gelber, MS** (Stanford University), PhD (Cornell University); Professor of Pediatrics (Biostatistics), Harvard Medical School. Design and analysis of clinical trials; quality of life endpoints for clinical trials; statistical education of medical professionals.



**Rose Goldman, MD** (Yale University) MPH (Harvard School of Public Health) Associate Professor in the Department of Environmental Health, HSPH; Associate Professor of Medicine at Harvard Medical School; co-project director of the New England Pediatric Environmental Health Specialty Unit at Cambridge Hospital and Children's Hospital, Boston. Repetitive Strain injuries, neurotoxicity, metals, pediatric environmental health, and teaching of Environmental and Occupational Medicine.

**Albert Hofman, MD** (University of Groningen), PhD (Erasmus University); Adjunct Professor, Department of Epidemiology. Incidence and risk factors of Alzheimer's disease, vascular dementia, Parkinson's disease and Creutzfeldt-Jakob disease. Determinants of atherosclerosis, heart disease and stroke.

**M.G. Myriam Hunink, MD** (University of Leiden), PhD (Erasmus University Rotterdam), Professor of Clinical Epidemiology and Radiology at the Erasmus University Medical Center Rotterdam, the Netherlands and Adjunct Professor of Health Policy at the Harvard School of Public Health, Boston. Research focuses on the assessment of diagnostic imaging and image-guided therapeutic technologies, using techniques from clinical epidemiology, meta-analysis, decision modeling, and cost-effectiveness analysis.

**Hongyu Jiang, PhD** (University of Wisconsin-Madison); Assistant Professor of Biostatistics, Harvard School of Public Health. Statistical methods for correlated multivariate time-to-event data and censored medical cost

data; resistance cost quantification of anti-retroviral therapies; family-based association test for quantitative traits.

**Molly Kile, MS, ScD** (Harvard School of Public Health). Research Fellow in the Department of Environmental Health, HSPH Exposure assessment; environmental epidemiology; risk assessment; specializing in metals and issues related to drinking water quality.

**Ichiro Kawachi, MD, PhD** (University of Otago), DipCommH (College of Community Medicine of New Zealand); Professor of Social Epidemiology, Department of Society, Human Development, and Health. Social inequalities in health, especially related to income distribution; stress and cardiovascular disease; quality of life and healthy aging; tobacco control.

**Anthony Komaroff, MD** (University of Washington); Simcox-Clifford-Higby Professor of Medicine, Harvard Medical School. Clinical epidemiologic studies of common problems in primary care; computer systems in medical care. Publishing of medical information for the public.

**Francine Laden, ScD** (Harvard University), Assistant Professor of Environmental Epidemiology, Harvard School of Public Health; Assistant Professor of Medicine (Epidemiology), Harvard Medical School. Epidemiologic studies of environmental risk factors, including exposure to air pollution and persistent organic pollutants, and risk of cancer, mortality, and chronic respiratory and cardiovascular disease.

**Ellen P. McCarthy**, PhD (Tulane University), MPH (Tulane University); Assistant Professor of Medicine, Harvard Medical School. Health services research; end-of-life care; cancer screening, treatment and outcomes in the elderly; health care disparities.

**Michelle Mello**, MPhil (Oxford University), PhD (University of North Carolina), JD (Yale University); C. Boyden Gray Associate Professor of Health Policy and Law. Public health law and ethics; research ethics; medical malpractice; medical errors and patient safety; mass tort litigation.

**Blackford Middleton**, MD (SUNY-Buffalo), MPH (Yale), MSc (Stanford). Corporate Director of Clinical Informatics Research & Development, Chairman, Center for IT Leadership, Partners HealthCare System; Design and implementation of integrated clinical information systems, special focus on electronic health records, clinical decision support, technology assessment, and patient-centered informatics.

**Murray A. Mittleman**, MD, CM (McGill University), MPH, DPH (Harvard University); Associate Professor in the Department of Epidemiology; Associate Professor of Medicine, Harvard Medical School. Epidemiologic methods; cardiovascular epidemiology; stress and heart disease; injury epidemiology.

**Marc J. Roberts**, PhD (Harvard University); Professor of Political Economy. Health policy; environmental policy; ethical aspects of allocating scarce public health resources; health sector reform in Asia and the Middle East.

**Meredith Rosenthal**, PhD (Health Economics, Harvard) Associate Professor of Health Economics and Policy Health economics, U.S. health policy, payment incentives, consumer-directed health plans, pharmaceutical industry.

**Donald C. Simonson**, MD, MBA, MPH, ScD (Yale, MIT, Harvard). Lecturer on Medicine, Division of Endocrinology, Diabetes and Hypertension, Brigham and Women's Hospital and Harvard Medical School. Research interests include clinical pathophysiology and treatment of diabetes and related metabolic disorders, health outcomes research, disease management and health economics.



**Kenneth E. Stanley**, MA (Bucknell University), PhD (University of Florida); Lecturer on Biostatistics. Clinical trials; clinical and natural history research in HIV disease, estimating mortality attributable to tobacco in the presence of incomplete information.

**Michael Stoto**, PhD Adjunct Professor of Biostatistics and Director, Evaluation Core, Center for Public Health Preparedness Harvard School of Public Health Professor of Health Services Administration and Population Health Georgetown University School of Nursing & Health Studies.

**David Studdert**, LLB (University of Melbourne), MPH, ScD (Harvard School of Public Health); Federation Fellow and Professor, University of Melbourne, Australia. Health law and regulation; medical malpractice, medical injuries, and quality of care; dispute resolution; medical ethics.

**Marcia A. Testa**, MPH, MPhil, PhD (Yale University); Senior lecturer on Biostatistics. Applied areas of research involve evaluating quality of life and health economic outcomes in therapeutic clinical trials and quality of care research and quantifying and evaluating public health preparedness in relation to bioterrorism, counterterrorism, emerging infections and natural disasters; Methodological research includes measurement of latent constructs, structural equation modeling, the analysis of multiple endpoints and large database analytical algorithms.

**Milton C. Weinstein**, AM, MPP, PhD (Harvard University); Henry J. Kaiser Professor of Health Policy and Management (Health Policy and Management and Biostatistics); Professor of Medicine, Harvard Medical School. Cost-effectiveness of health practices and technologies.

**“The professors were among the best I have ever had. I enjoyed taking courses in the summer, since the class sizes were small, and the interaction with the instructors was very fruitful.**

— **John M. Brehm, M.D.**  
Current MPH Degree Candidate in Quantitative Methods  
Cambridge, MA



## ADMISSION INFORMATION

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### The Summer Session for Public Health Studies

The application for the Summer Session is enclosed. All information regarding the application process is included. Please read the instructions carefully. Complete applications are reviewed for admission to courses by the teaching faculty. Incomplete applications, those without an application fee, or applications lacking supporting documents or a signature, will not be reviewed.

**Application deadline: March 1, 2008.**

In most cases, applicants will be notified of their admission status in writing.

**Please note:** Admission to, or academic performance in, the Summer Session does not guarantee admission to the School's other full- and part-time academic degree programs, which require a separate application and admissions process. Current degree candidates at HSPH and individuals who have applied to a degree program at the School this admissions season (for the fall of 2008) must complete and sign the first page of the Summer Session application but are not required to submit the application fee.

### Housing

Students are responsible for their own housing. There are a variety of accommodation options available in the area including apartments, dorms, guest houses, bed and breakfast establishments and hotel rooms. For information about housing for summer students in the Boston area please visit the Office for Student Affairs website:

<http://www.hsph.harvard.edu/student-life/housing/>. If you have questions, please feel free to contact the Office for Student Affairs: (617) 432-6650 or by e-mailing Amy at: [awooldri@hsph.harvard.edu](mailto:awooldri@hsph.harvard.edu).

### Tuition and Fee Schedules

#### Tuition

In Summer Session 2007, tuition for each 2.5 credit course was \$2,005. Tuition rates for the summer of 2008 are not yet available. In summers past, tuition rates have changed by approximately 5%. There is a non-refundable deposit/registration fee of \$125.

These fees do not include certain course materials (i.e., texts estimated at \$60 per course). In addition, participants are responsible for all other expenses associated with attending courses and/or living in Boston (i.e., food, housing, transportation, health insurance coverage).

*Note: Financial assistance is not available for the 2008 Summer Session.*

#### Fee Schedule

A non-refundable registration fee/deposit of \$125 is due by April 30, 2008 or by the date specified in letter of admission. Total tuition is due by May 30, 2008.

### Cancellation Policies

#### Students

Admitted students who withdraw from Summer Session courses on or before July 1 for Summer 1 and July 25 for Summer 2 will be reimbursed 100% of their tuition fee. A written request to withdraw must be received on/or before those dates to receive the full reimbursement. Withdrawal after those dates corresponds to a pro-rated schedule. Please contact Hildi Keary in the HSPH Registrar's Office at 617-432-1052 for more information.

#### Course Cancellation Policy

We reserve the right to cancel courses with insufficient enrollment.



Please visit our website at:  
<http://www.hsph.harvard.edu/summer/brochure>

## Program Administration

**Roberta Gianfortoni, MA**

Director, Summer Session

Assistant Dean for Professional Education, MPH Program

**Hildi Keary, AB**

Administrative Assistant for Summer Programs

Registrar and Admissions Offices

## For Further Information

For questions regarding Summer Session admission procedures, contact Hildi Keary: phone: 617-432-1052, fax: 617-432-2009, email: [hkeary@hsph.harvard.edu](mailto:hkeary@hsph.harvard.edu)

For questions regarding the Summer Session academic program or Master of Public Health Program, contact Roberta Gianfortoni: phone: 617-432-0090, fax: 617-432-3365, email: [roberta@hsph.harvard.edu](mailto:roberta@hsph.harvard.edu)

To receive a Harvard School of Public Health catalogue and application for any of our degree programs, please request by going to the admissions web site: [www.hsph.harvard.edu/admissions](http://www.hsph.harvard.edu/admissions) or call 617-432-1031.

## For Future Consideration

The 2009 Summer Session is likely to repeat courses offered in 2008.

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## Important Information on Completing the Application for Admission to the HSPH Summer Session • 2008

### Application Deadline

All applications and supporting documents must be received by **March 1, 2008**. Applications submitted and/or completed after this date will not be considered for admission to the Summer Session.

### Application Fee

A non-refundable application fee of \$60.00 is required. A check drawn on a bank in the United States, a U.S. postal money order, or an international money order in U.S. currency, made payable to the Harvard School of Public Health must accompany your application. Please indicate your name on the check or money order. **Currently enrolled HSPH students or individuals, who have applied to a degree program at HSPH for fall 2008 and have paid the SoPHAS application fee, are not required to submit another application fee. All other applications without the fee will not be processed.**

### Instructions for Completing the Application Form

The application form should be completed in full unless otherwise indicated (see Item IV). Please type, if possible, or print in black ink.

Each segment of information corresponds to the Roman Numeral on the application for admission.

### I. Biographical Information

#### Name

Please provide your legal name in the spaces provided. If you have been affiliated with Harvard University under any other name, please indicate. If your name legally changes during the application process, you must submit appropriate legal documents supporting the name change.

#### Identification Numbers

Your U.S. Social Security number will be used only temporarily to identify your application in the local computer database until a nine-digit Harvard University ID number is



assigned to you if your admission is accepted and confirmed. If you do not hold a U.S. Social Security card, a random nine-digit identification number will be assigned to you. After acceptance into the Summer Session and confirmation of enrollment, each student is assigned a Harvard University student ID number. If you already have a Harvard ID number, whether as a student or a staff member, please indicate your previous affiliation and ID number in the space provided.

#### Address

Please provide a current address and day and evening telephone numbers. If your address or telephone numbers change during the admissions process please inform the Summer Session of such changes.

## II. Course Selection

Please indicate on the application form the courses to which you are applying for admission. Please note course times and credit limits for each session. **If courses meet at the same time, indicate which is your first choice.** Refer to the program brochure for descriptions of course content and requirements, or check the School's website for course information: [www.hsph.harvard.edu/registrar/courses/index.shtml](http://www.hsph.harvard.edu/registrar/courses/index.shtml)

## III. How Did You Hear About the Summer Session?

Please indicate how you heard about the Summer Session, using the appropriate code from the following choices:

#### Code/Source

- 51 I attended a previous Summer Session
- 52 HSPH community (word of mouth)
- 53 Colleague
- 54 HSPH Admissions Office
- 56 Summer Session brochure in the mail
- 57 APHA annual meeting
- 58 Nation's Health ad
- 61 MPH Office at HSPH
- 62 HSPH Web site
- 63 Other Web site (please specify)

## IV. Release of Application Materials Previously Submitted to HSPH

If you have applied for degree candidacy at the Harvard School of Public Health for the 2008–2009 academic year, you may authorize the Admissions Office to release your application materials to the Summer Session by signing in the space indicated. All materials submitted in support of your application for admission to degree candidacy will be released to the Summer Session reviewers. If you are a current student or current degree candidate, you may skip parts V through IX and sign here to release your application materials from the Registrar's Office to the Summer Session.

## V. Citizenship

Indicate your citizenship by checking the appropriate category and provide the additional information requested. Note that if you are a permanent resident of the United States (Green Card holders only) you must submit a photocopy of the front and back of your permanent resident card.

## VI. Optional Questions

Answers to questions in this section are optional. The answers are requested for statistical reporting only. Choosing not to provide answers to some or all of these questions will in no way influence the decision regarding your application for admission.

Please note: If accepted, gender and date of birth are required information.

## Please Note

Admission to and participation in the Summer Session does not guarantee admission to a degree-granting program.

If you are interested in applying to a degree-granting program either before or after attending the Summer Session, please review the Admissions website: <http://www.hsph.harvard.edu/administrative-offices/admissions/>.

Similarly, admission to a degree-granting program at the School of Public Health does not guarantee admission to the Summer Session. Because the Summer Session courses are rigorous, and because space is limited, current and entering HSPH students may not, in some instances, be admitted to Summer Session courses.



## VII. Professional Experience

Please indicate your most recent occupation by using the appropriate code listed below. Also indicate the length of time (in years) you have been in this occupation. **Please enclose your current resume or curriculum vitae.**

### Code/Occupation

02	administrator	38	pharmacist
08	biostatistician	40	physician
12	dentist	44	psychologist
14	economist	45	rehabilitationist
15	educator	47	social worker
16	engineer	48	sociologist
18	environmental scientist	49	statistician
19	epidemiologist	54	bachelor's degree student
20	health educator	55	master's degree student
22	health service administrator	56	doctoral degree student
24	hospital administrator	57	other (please specify)
27	journalist	58	medical resident
28	laboratory scientist	59	research assistant
29	lawyer	98	dental degree student
33	nurse	99	medical degree student
34	nutritionist		

## VIII. Education

List all colleges and professional schools you have attended, starting with the most recent, whether or not you received relevant academic credit from that institution. **Please submit transcripts from each institution from which you received a degree.** You may either ask the institution to send a copy of the transcript directly to the Summer Session, or you may forward it to us yourself. If your academic institution does not provide transcripts, you may have the Registrar submit remarks, rank in class, position in examinations, course curriculum, etc., in place of the transcripts. If the institution does not keep records in English, the transcript must be translated into English.

## IX. Standardized Tests

### The Test of English as a Foreign Language (TOEFL)

#### International English Language Testing System (IELTS)

All students applying to the Summer Session from countries where English is not the language of instruction, including those who are U.S. permanent residents and U.S. citizens who were granted permanent residency or citizenship after January 1, 2007, must submit either a TOEFL score report or an IELTS score report before their applications will be considered. The following minimum scores are required:

TOEFL paper-based: 560

TOEFL computerized: 220

TOEFL internet based: 83

IELTS: 7

### Admissions Tests: "Do I have to submit a GRE score report?"

The Summer Session strongly encourages you to submit a score report from the GRE (or an appropriate substitute as outlined below) along with your application. Scores from such standardized tests can provide important information about your quantitative aptitude in particular. **If the transcript you submit from a baccalaureate or post-baccalaureate program does not include a grade for a college-level mathematics course, you will be expected to submit a standardized test score report.** You may submit a photocopy of your score report.

**Scores from the following examinations are acceptable under the following circumstances:**

Dentists and current dental students may submit scores from the Dental Admission Test (DAT).



As a matter of policy, law and commitment, the Harvard School of Public Health does not discriminate against any person on the basis of race, color, sex, sexual orientation, religion, age, national or ethnic origin, political beliefs, veteran status, or handicap in admission to, access to, treatment in, or employment in its programs and activities.

Applicants holding an MBA or DBA, or current MBA or DBA students, may submit scores from the Graduate Management Admission Test (GMAT)

Physicians and current medical students may submit scores from the Medical College Admission Test (MCAT)

Attorneys and current law school students may submit scores from the Law School Admission Test (LSAT)

#### X. Statement of Intent

On a separate sheet of paper, please describe your areas of interest in public health, your reason for wanting to attend the Summer Session, and your career plans. Your statement should be typed, double-spaced, and no more than 500 words long.

#### XI. Signature

You must sign and date the completed application. Your signature certifies that the information provided by you on all sections of the application and any supplementary sections is complete and accurate in every respect, and that you understand that any misrepresentation or omission may be cause for denial of admission or revocation of academic record. Your signature also certifies that you understand that any materials submitted with your application become the property of the Harvard University School of Public Health. **Even if you have signed the release authorization at Roman Numeral IV, you must sign and date the application here.**

Unsigned applications will be returned to the applicant with a request for signature. Applications without a signature will not be processed.

#### XII. Mail Completed Application and Fee to:

Hildi Keary, Summer Programs  
Harvard School of Public Health  
677 Huntington Ave., Rm G-4  
Boston, MA 02115

For more information regarding Summer Session admissions procedures, contact:

Hildi Keary, Administrative Assistant for Summer Programs

Phone: 617-432-1052

Fax: 617-432-2009

email: hkeary@hsph.harvard.edu

For questions regarding Summer Session academic program and the Master of Public Health Program, contact:

Roberta Gianfortoni, Director, Summer Session

Phone: 617-432-0090

Fax: 617-432-3365

email: roberta@hsph.harvard.edu

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**“It’s excellent that administrative issues are easily dealt with so that our concentration can be on the courses. I appreciated the computer lab availability, wireless internet, and printing support. Also, the professors were outstanding in their commitment to the courses.”**

— Janine Davies, M.D.  
Summer Session 2007 Alumna  
Medical Oncology Fellow, PGY-5  
Tom Baker Cancer Centre/University of Calgary  
Calgary, Alberta

# APPLICATION FOR ADMISSION – HARVARD SCHOOL OF PUBLIC HEALTH SUMMER SESSION FOR PUBLIC HEALTH STUDIES • 2008

## I. Biographical Information

### A. Name

Prefix: \_\_\_\_\_ Name: \_\_\_\_\_  
Ms., Mr., Dr., etc. Last (Family) First Middle

Suffix: \_\_\_\_\_ Maiden Name: \_\_\_\_\_  
Jr., M.D., R.N., etc.

Have you applied to or attended another school or taken a standardized test that you are submitting with this application under another name?

yes  no If yes, under what name: \_\_\_\_\_

### B. Identification Numbers

U.S. Social Security Number: \_\_\_\_\_

Please list the dates of any previous attendance or employment at Harvard University, and your Harvard ID Number:

From \_\_\_\_\_ to \_\_\_\_\_ Harvard ID Number: \_\_\_\_\_  
(MM/YY) (MM/YY)

### C. Address and Telephone

Number and Street \_\_\_\_\_

City, State and Zip Code \_\_\_\_\_ Country \_\_\_\_\_ Email Address \_\_\_\_\_

Telephone (Daytime) \_\_\_\_\_ Telephone (Evening) \_\_\_\_\_ Fax Number \_\_\_\_\_

## II. Course Selection

Please check the courses to which you are applying for admission. If you are applying to more than one course in the same time slot, please indicate your first and second choice. **Please note:** students may register for a maximum of 5 credits per session. All courses are 2.5 credits.

### Summer 1

- BIO 202, Principles of Biostatistics, Part I (8:30–10:20)
- EPI 500, Fundamentals of Epidemiology (10:30–12:20)
- HPM 510, Introduction to Management of Health Care Organizations (8:30–10:20)
- ID 215, Environmental and Occupational Epidemiology (3:30–5:20)
- SHH 201, Society and Health (1:30–3:20)

### Summer 1 Limited Enrollment

- HPM 276, Methods and Applications in Health Services Research (3:30–5:20)
- HPM 277, Current Issues in Health Policy (1:30–3:20)
- HPM 530, Measuring and Analyzing the Outcomes of Health Care (1:30–3:20)
- ID 251, Ethical Basis of the Practice of Public Health (10:30–12:20)
- ID 251, Ethical Basis of the Practice of Public Health (3:30–5:20)
- RDS 286, Decision Analysis in Clinical Research (1:30–3:20)

### Summer 2

- BIO 203, Principles of Biostatistics, Part II (8:30–10:20)
- BIO 234, Systematic Reviews and Meta-Analysis in Public Health and Medicine (3:30–5:20)
- EH 201, Introduction to Environmental Health (1:30–3:20)
- EPI 202, Elements of Epidemiologic Research (10:30–12:20)
- EPI 295, Pharmacoepidemiology: Introduction (3:30–5:20)
- HPM 209, The Economics of Health Policy (10:30–12:20)

### Summer 2 Limited Enrollment

- BIO 214, Principles of Clinical Trials (10:30–12:20)
- BIO 224, Survival Methods in Clinical Research (8:30–10:20)
- BIO 501, Linear and Longitudinal Regression (3:30–5:20)
- HPM 253, Improving Quality in Health Care (1:30–3:20)
- HPM 512, Medical Informatics (1:30–3:20)
- HPM 299, Research With Large Databases (3:30–5:20)
- RDS 288, Methods for Decision Making (1:30–3:20)
- SHH 250, Research on Social and Behavioral Health: A Practical Guide (1:30–3:20)

## III. How Did You Hear About the Summer Session?

Please place a code in the space provided. See page 12.

How did you learn about the Summer Session? \_\_\_\_\_ / \_\_\_\_\_  
Code Description

## IV. Release of Application Materials Previously Submitted to HSPH

If you have applied for degree candidacy at the Harvard School of Public Health for the 2008–2009 academic year or are a current degree candidate, you may authorize the Admissions and Registrar's Offices to release your application materials to the Summer Session by signing below. I hereby authorize the Admissions Office of the Harvard School of Public Health to release the contents of my application for admission to degree candidacy to the Harvard School of Public Health Summer Session for Public Health Studies.

Signature \_\_\_\_\_ Date \_\_\_\_\_

## V. Citizenship

My country of citizenship is \_\_\_\_\_ My place of birth is \_\_\_\_\_  
City Country

I am a U.S. Permanent Resident (Green Card holders only – a copy of front and back of Green Card must be enclosed).

To be completed by those who are not U.S. citizens or by those who do not hold U.S. Permanent Resident status (Green Card):

I currently hold a:  F-1 visa for the U.S.A.  J-1 Its expiration date is \_\_\_\_\_  
(MM/DD/YY)

## VI. Optional Questions

Sex:  Male  Female Date of Birth: \_\_\_\_\_  
(MM/DD/YY)

### Ethnic Background:

For U.S. citizens only (please check the appropriate box)

African American  Chicano/Mexican American  Other Hispanic

Asian American or Pacific Islander  Puerto Rican  White

American Indian or Alaskan Native Tribal Affiliation: \_\_\_\_\_

Other, please describe: \_\_\_\_\_

## VII. Professional Experience

What has been your most *recent* occupation? See instructions, page 13, for code number. Please include a resumé or c.v. with your application.

Code/Description	Years in this position
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## VIII. Education

School:	Location	Dates Attended	Degree Received	Date Awarded
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School:	Location	Dates Attended	Degree Received	Date Awarded
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School:	Location	Dates Attended	Degree Received	Date Awarded
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## IX. Admission Tests *(See application instructions in booklet, pages 9–14.)*

Type of Test: \_\_\_\_\_ Date: \_\_\_\_\_ Score(s): \_\_\_\_\_

Type of Test: \_\_\_\_\_ Date: \_\_\_\_\_ Score(s): \_\_\_\_\_

## X. Statement of Intention

On a separate sheet of paper, please describe your areas of interest in public health, your reason for wanting to attend the Summer Session, and your career plans.

## XI. Signature *(Please note that your application will not be processed without it.)*

I hereby certify that the information given by me on the various sections of this application and any supplementary materials submitted are complete and accurate in every respect, and I understand that any misrepresentation or omission may be cause for denial of admission or revocation of academic credit. I also understand that my application and any materials submitted with my application become the property of the Harvard School of Public Health.

Signature

Date

## XII. Mail Completed Application and Fee to:

Hildi Keary, Summer Programs  
Harvard School of Public Health  
677 Huntington Ave., G-4  
Boston, MA 02115

## AT A GLANCE

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### Important Contacts

#### Summer Session Admissions

Hildi Keary, Administrative Assistant for Summer Programs

617-432-1052

hkeary@hsph.harvard.edu

#### General HSPH Admissions

Vincent James, Director of Admissions

617-432-1031

admisofc@hsph.harvard.edu

#### Advising for Summer and Master of Public Health Programs

Roberta Gianfortoni, Assistant Dean for Professional Education, Director of Summer Session

617-432-0090

roberta@hsph.harvard.edu

#### Housing

Office of Student Affairs

617-432-6650

awooldri@hsph.harvard.edu

#### Non-credit, Continuing Professional Education

617-384-8692

contedu@hsph.harvard.edu

### Curriculum and Program Information

- Limit of two, 2.5 credit courses for a total of 5 credits per each Summer Session.
- Maximum of 10 credits per summer.
- Students enrolled in the Summer-Only degree programs should speak with the Summer I Session director.

### Application and Admissions

- Deadline for application: March 1, 2008.
- \$60.00 application fee.
- Sign your application!
- A minimum TOEFL score of 560 on the written test or 220 on the computer test or 83 on the internet test or a minimum score of 7 on the IELTS for all students from countries where English is not the language of instruction.
- GRE (or other standardized test) scores are not required but are strongly recommended.
- Admission to the Summer Session does not guarantee admission to the School's degree programs.

### Tuition and Fees

- Tuition for 2007 was \$2,005 for a 2.5 credit course. Rates for 2008 have not been established. Rates have changed by approximately 5% in the past.
- Non-refundable deposit/registration fee of \$125.00 is due by April 30, 2008 (or later date if specified in admission letter).
- Full tuition is due by May 30, 2008.



## Summer Session for Public Health Studies

*2008 Dates to Remember! Mark Your Calendar!*

**March 1: Application deadline**  
(Late applications may be reviewed on a space available basis.)

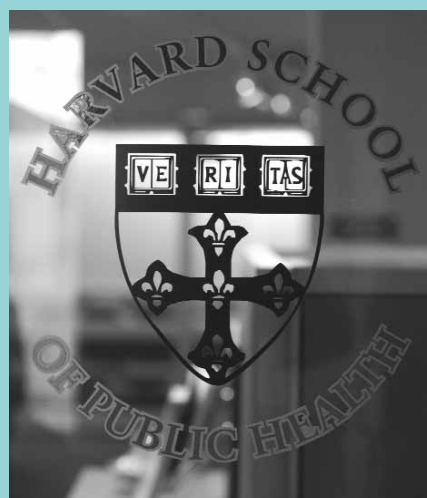
**April 30 (or later date specified in admission letter): \$125 non-refundable registration fee/deposit and confirmation due**

**May 30: Full tuition due**

**July 1–July 25, 2008: Summer 1 Session**

**July 28–August 15, 2008: Summer 2 Session**

Visit our website at:  
[www.hsph.harvard.edu/summer/brochure](http://www.hsph.harvard.edu/summer/brochure)



### HARVARD SCHOOL OF PUBLIC HEALTH

Summer Session for Public Health Studies  
Office for Educational Programs  
677 Huntington Avenue, G-29  
Boston, MA 02115-6023 U.S.A.

Tel: 617-432-1052

Fax: 617-432-2009

Email: [hkeary@hsph.harvard.edu](mailto:hkeary@hsph.harvard.edu)

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