

Approved 4/16/08

**UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE
MASTER OF PUBLIC HEALTH PROGRAM**

CONCENTRATIONS & REQUIREMENTS

The MPH Program at the University of Maryland School of Medicine is a two concentration program that emphasizes the development of public health skills in core concentration requirement courses that are skills based. The MPH degree requires 42 credit hours, including 17 credits from core courses and a six- hour supervised project, the Capstone Experience. The MPH concentration in **Epidemiology** is designed for students who desire quantitative research skills in epidemiologic study design and data analysis. The Epidemiology Concentration includes targeted electives in the areas of environmental and occupational health; epidemiology; global health; and veterinary public health. The MPH Concentration in **Community & Population Health** is designed to prepare students to apply the conceptual and methodological approaches of the social and behavioral sciences to public health practice and research. The Community and Population Health Concentration includes targeted electives in the areas of aging and public health; global health; health policy and management; and social and behavioral sciences. Each concentration has specific course requirements that are described on the following pages.

MPH Concentration in Epidemiology

The MPH concentration in Epidemiology is designed for students who desire quantitative research skills in epidemiologic study design and data analysis. The Epidemiology concentration provides skills in risk factor analysis, specifically understanding the distribution, characteristics, causes, risk factors, and prevention of disease, disability, and mortality in the population. Students will be trained in ecological approaches to public health, including strategies for understanding and assessing the impact of political, socioeconomic, cultural, and behavioral factors on population health.

Competencies gained from this curriculum include:

1. Gain familiarity with evidence-based principles of data management.
2. Identify and correctly apply appropriate statistical methods.
3. Correctly interpret study findings and results.
4. Identify appropriate study designs and data sets for public health investigations.
5. Articulate appropriate research questions and hypotheses to investigate public health problems.
6. Recognize the social, biological, psychological, and behavioral factors that affect the health of individuals and populations.
7. Identify the individual, family, organizational, community, and societal level factors that are associated with the onset and solution of public health problems.
8. Examine racial and ethnic disparities within the context of historic and contemporary social and economic climates.
9. Understand the root causes of disparities in disease risk, access and utilization of preventive and health care services, and health outcomes.

<u>Required Core Courses (23 Credits)</u>	<u>Course Number</u>	<u>Credits</u>
Principles of Epidemiology	PH600	3
Principles of Biostatistics	PH620	3
Environmental/Occupational Health	PH668	3
Introduction to the Health System, Policy, & Management	PH648	3
Foundations of Public Health	PH610	3
Public Health Ethics (new)		2
Supervised Project (Capstone)	PH789	6
	Subtotal	23

Required Concentration Courses (10 credits)

Clinical Trials/Experimental Epidemiology	PREV 803	3
Observational Studies in Epidemiology	PREV 659	3
Statistical Methods in Epidemiology	PREV 720	4

Electives (grouped by interest areas) ** (9 credits)

Epidemiology

Chronic Disease Epidemiology	PREV	3
Infectious Diseases Epidemiology	PREV 749	3
Social Epidemiology (new)	PREV	3
Molecular Epidemiology	PREV 704	3
Genetic Epidemiology	PREV 711	3
Pharmacoepidemiology	PREV 705	3

Injury Epidemiology & Prevention	PREV 715	2
Epidemiology of Aging	PREV 681	3
Research Informatics: Data Management In Research	PREV 706	2
Biostatistical Computing	PREV619	2

Environmental / Occupational

Advanced Toxicology	TOXI 601	3
Exposure, Risk, and Public Health	TOXI 611	3
Interdisciplinary Seminar in Environmental Health Risk Assessment & Management in a Regulatory Context	NURS750	1
Critical Issues in Law and Science	LAW ELS	3
	LAW ELS	3

Global Health

Global Health: Critical Issues	PREV 664	3
The Ethics of Globalization	PREV 640	1
Ethical issues in International Research	PREV638	3
Health-Law Seminar: International Public Health	LAW552	3
Health & International Human Rights	LAW564	3
Society, Health and Social Justice	NURS769	3

Veterinary Public Health

Applied Epidemiology	PREV 601	2
One Medicine/One Health	PREV new	2
Veterinary Pharmacoepidemiology	PREV 722	1
Emerging Infectious Diseases I & II	VM 5005/5006	2
Infectious Diseases Epidemiology	PREV749	3
Health Survey Research Methods	PREV 758	3
Disease Modeling in Epidemiology	PREV 611	3
Molecular Epidemiology of Infectious Diseases	PREV 631	3
Exposure, Risk and Public Health	TOXI 611	2
Health Law Seminar: Food and Drug Law	LAW 586	3

Total Credits 42

**Additional elective courses may be selected and approved by students' advisor and the MPH Curriculum Committee.

MPH Concentration in Community & Population Health (CPH)

Approved by the Social & Behavioral Sciences Steering Committee 11/17/05

Approved by the MPH Steering Committee 12/07/05

Modified and Approved by the MPH Steering Committee 6/06/07

The MPH Concentration in Community & Population Health (CPH) is designed to prepare students to apply the conceptual and methodological approaches of the social and behavioral sciences to public health practice and research. This concentration will focus on developing an understanding of the influence of the political, economic, socio-cultural and behavioral contexts and processes on population health. Particular attention will be given to examining the root causes of disparities in disease risk, access and utilization of preventive and health care services, and health outcomes. A major goal of this concentration is to train students in the skills and knowledge needed to apply mixed methods (qualitative and quantitative) approaches in designing, implementing, and evaluating public health programs and translation of public health approaches to health policy.

Competencies gained from this curriculum include:

1. Recognize the social, biological, psychological, and behavioral factors that affect the health of individuals and populations.
2. Identify the individual, family, organizational, community, and societal level factors that are associated with the onset and solution of public health problems.
3. Examine racial and ethnic disparities within the context of historic and contemporary social and economic climates.
4. Understand the root causes of disparities in disease risk, access and utilization of preventive and health care services, and health outcomes.
5. Comprehend the basic theories, concepts and models from the social and behavioral sciences that are used to address health issues at the individual, family, organizational, community, and population levels in PH research and practice.
6. Integrate and apply qualitative and quantitative mixed research methods for understanding phenomena in population health, and developing and evaluating public health interventions.
7. Understand the individual, organizational, and community concerns, assets, resources, and deficits for social and behavioral science interventions.
8. Develop community partnerships for the planning, implementation and evaluation of health promotion programs.
9. Use evidence-based approaches in the development, implementation, and evaluation of social and behavioral science interventions.
10. Employ the steps and procedures of planning social and behavioral interventions and policies.
11. Advocate for the use of social and behavioral science approaches to address and transform public health issues.
12. Apply ethical principles of social justice to public health program planning, implementation, evaluation, and advocacy.

Required Core Courses (23 Credits)	Course Number	Credits
Principles of Epidemiology	PH600	3
Principles of Biostatistics or Biostatistical Methods	PH620 PH621	3
Environmental/Occupational Health	PH668	3
Introduction to the Health System, Policy, & Management	PH648	3
Foundations of Public Health	PH610	3
Public Health Ethics (new)		2
Supervised Project (Capstone)	PH789	6
	Subtotal	23

Required Concentration Courses (9 credits)		
Health Survey Research Methods	PREV758	3
Program Development and Evaluation in Community/Public Health	NURS 732rev	3
Community-based Participatory Research: Theory & Methods	PREV789	3
	Subtotal	9

Electives (grouped by interest areas) ** (10 credits)

Social/Behavioral Sciences

Social Epidemiology (new)	PREV	3
Health Promotion/Disease Prevention Seminar (new)	PREV	1
Independent Study	PREV	1
Introduction to Health Behavior Theory	PHSR 620	3
Society, Health, & Social Justice	NURS 769	3
Nature of Health and Illness	SOWK765	3
Community Organization	SOWK704	3
Health Promotion Disease Prevention	NURS 620rev	3
Populations at Risk in Community/Public Health	NURS 761	3
Therapeutic Jurisprudence	NURS	3
Health Education, Health Promotion and Disease Prevention	PHSR670/PREV 650	3
Qualitative Research Methods in Social Work	SOWK826	3
Qualitative Ethnocultural Research	SOWK783	3
Sociology of Mental Health and Illness (UMBC)	SOCY658	3
Qualitative Methods in Social Research (UMBC)	SOCY619	3
Introduction to Behavioral Medicine (UMBC)	PSYC648	3
Applied Social Psychology (UMBC)	PSYC656	3
Work, Stress, and Health Disparities	NURS898	3

Aging and Public Health

Epidemiology of Aging	GERO681	3
Sociocultural Gerontology	GERO700	3

Issues in Aging Policy	GERO/SOCY672	3
Economics of Aging	GERO472	3

Global Health

Global Health: Critical Issues	PREV 664	3
The Ethics of Globalization	PREV 640	1
Ethical issues in International Research	PREV638	3
Health-Law Seminar:		
International Public Health	LAW552	3
Health & International Human Rights	LAW564	3
Society, Health and Social Justice	NURS769	3

Health Policy & Management

Theory and Practice of Policy Analysis (UMBC)	PUBL603	3
Managing Public Organizations (UMBC)	PUBL613	3
Health and International Human Rights	LAW565K	3
Multicultural Practice in Organizations and Communities	SOWK706	3
Comparative Social Policy	SOWK720	3

Total Credits 42

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