Core Requirements for M.P.H. Students beginning fall 2011

The following courses satisfy the M.P.H. core public health discipline requirement. Where more than one course is listed, the student is expected to choose one of the options listed.

Biostatistics:

PH 1690 Foundations of Biostatistics
PH 1700 Intermediate Biostatistics

PH 1690 and PH 1700 are required core courses for M.P.H. majors in the Division of Biostatistics and the Division of Epidemiology. PH 1690 is the required core course for all other divisions, but PH 1700 is strongly recommended for additional preparation.

Environmental and Occupational Health Sciences:

PHWM 2100 Foundations of Environmental and Occupational Health Sciences (for EOHS majors only)
PHM 2110 Overview of Environmental Health
PHWM 2120 Man’s Impact on the Environment

Epidemiology and Disease Control:

PHM 2610 Fundamentals of Epidemiology
PHM 2612 Epidemiology I (for Epidemiology majors or minors only)

Health Promotion and Behavioral Sciences:

PHM 1110 Social and Behavioral Aspects of Community Health
PHM 1111 Health Promotion Theory and Methods I
PHM 1112 Health Promotion Theory and Methods II

PH 1111 and PH 1112 must be taken as a sequence; one course alone will not satisfy the core requirement. PH 1111 and PH 1112 are required for M.P.H. majors in the Health Promotion and Behavioral Sciences Division.

Management, Policy and Community Health:

PHM 3715 Introduction to Management and Policy Sciences

Biostatistics:

PH 1690 Foundations of Biostatistics (previously PH 1610, offered from Fall 2009-Summer 2010)
The Faculty in Biostatistics, 4 credits, a, b, cd

This course is designed as the first biostatistics course for students who have not previously taken a course in Biostatistics; this course is a designated core course for M.P.H. students. This course introduces the development and application of statistical reasoning and methods in addressing, analyzing and solving problems in public health. Computer applications are included.

PH 1700 (previously PH 1725 and PH 1726 offered from Fall 2009-Summer 2010) Biostatistics II
The Faculty in Biostatistics, 4 credits, a, b, cd

This course is required for a Biostatistics minor and for students in Biostatistics who have not previously taken courses in Biostatistics. This course extends the topics covered in Biostatistics I to provide a more
in depth foundation for data analysis, particularly focusing on its application on research problems of public health and the biological sciences. Computer applications are included.

Prerequisites: PH 1690 (beginning Fall 2010-Summer 2011) or consent of instructor.

Environmental and Occupational Health Sciences:

**PHWM 2100 Foundations of Environmental and Occupational Health Sciences I**
The Faculty of Environmental and Occupational Health Sciences, 4 credits, a

This course is designed as a core course in environmental and occupational health sciences for all students majoring in the EOHS Division. This one-semester offering covers basic concepts in the field as groundwork on which the remainder of the EOHS curriculum is built.

Prerequisites: Be a masters student majoring in the EOHS Division, or a doctoral student from another division with a minor in EOHS; or equivalent undergraduate preparation as that of an EOHS major.

**PHM 2110 Overview of Environmental Health**
The Faculty in Environmental and Occupational Health Sciences, 3 credits, b

This course is a survey of the major areas of environmental health and provides students with an understanding of hazards in the environment, the effects of environmental contaminants on health, and various approaches to address major environmental health problems. Areas of emphasis are population dynamics, global environmental health problems, toxicology, food, air and water quality, occupational health, radiation, noise, and solid and hazardous waste.

This is a designated core course.

**PHWM 2120 Man's Impact on the Environment**
Schroder, 3 credits, a, cd

The major course goals are to develop a general awareness of how the man-made and natural ecosystem interact to affect health and the quality of life, review relevant principles from the natural sciences, and discuss issues influencing the solutions to environmental health problems. This will be accomplished through lectures, videos, class discussions, group activities, written assignments, and examinations.

This is a designated core course.

Epidemiology and Disease Control:

**PHM 2610 Fundamentals of Epidemiology**
The Faculty in Epidemiology and Disease Control, 3 credits, a, b, cd (Available Online)

This course introduces students to principles and concepts in epidemiology through lectures, discussions, assigned readings, and exercises. Students are given the opportunity to acquire an understanding of epidemiologic principles and concepts, the vocabulary of epidemiology, methods of epidemiologic investigation, and the design, interpretation, and evaluation of epidemiologic research.

This is a designated core course.
PHM 2612 Epidemiology I  
Du, Nettleton, and the Faculty in Epidemiology and Disease Control, 3 credits, a, b

This course introduces students to principles and concepts in epidemiology through lectures, discussions, assigned readings, and exercises. Students are given the opportunity to acquire an understanding of epidemiologic principles and concepts, the vocabulary of epidemiology, methods of epidemiologic investigation, and the design, interpretation, and evaluation of epidemiologic research. The key concept of this course is to help students to learn how to think epidemiologically and to apply these epidemiologic concepts and methods to solve public health problems.

This is a designated core course.

Health Promotion and Behavioral Sciences:

PHM 1110 Social and Behavioral Aspects of Community Health  
The Faculty of Health Promotion and Behavioral Sciences, 3 credits, a, b

This course focuses on health problems and issues and public health methods that have a major social or behavioral component. It is intended for the student with little background in the behavioral sciences. The course will enable students to describe one or two core theoretical perspectives from each of the social science disciplines of psychology, sociology and anthropology and their application to public health. The course will cover the major social and behavioral science models used in health promotion and disease prevention. The course will also cover existing social inequalities in health status related to race, social class and gender and the critical intersection between social risk factors, behavioral risk factors and the development and implementation of public health interventions. The problems considered in this course will vary from year to year but include topics with social and behavioral risks.

This is a designated core course.

This course is also offered at the Dallas: a, and San Antonio: b Regional Campuses.

PHM 1111 Health Promotion Theory and Methods I  
Hoelscher, Reinner, Businelle, 3 credits, b

This course introduces students to the application of selected behavioral science theories and concepts in health education and health promotion programs directed toward individuals and groups. Concepts emphasized are drawn from the Health Belief Model, the Theory of Reasoned Action, Trans-Theoretical Model, and Social Cognitive Theory with some attention to numerous additional theories and perspectives. Teaching-learning techniques include lecture, demonstration, and problem-based learning case studies.

This course is a designated core course for Health Promotion and Behavioral Sciences majors when taken with PH 1112.

This course is also offered ITV at the Brownsville: and El Paso: Regional Campuses.

PHM 1112 Health Promotion Theory and Methods II  
Reinner, McAlister, Evans, Barroso, Brown, 3 credits, a, b

In this course students are introduced to the application of health education and health promotion intervention theory and methods directed toward change in organizations, communities, and governments. Topics include organizational change, mass media, community organizations, diffusion of innovations, community development, social action, and political action. Students are provided opportunities to demonstrate knowledge and gain experience in applying theory, in designing
interventions, and in developing programs of intervention to affect programs, policies, and environmental conditions.

This course is a designated core course for Health Promotion and Behavioral Sciences majors when taken with PH 1111.

This course is also offered by ITV at the Brownsville and El Paso Regional Campuses.

**Management, Policy and Community Health:**

**PHM 3715 Introduction to Management and Policy Sciences**
The Faculty in Management, Policy and Community Health, 3 credits, a, b, cd

This course surveys theory and practice in the management and policy sciences applied to the field of public health. Topics include: public health in the US health system/ legal bases of public health; public policy institutions and decision-making processes; methods of policy analysis, public sector institutions, management and decision-making; and private sector health care institutions, management and decision making.

This is the designated M.P.H. core course for MPACH.