

## Core UT School of Public Health MPH Courses

During your senior year at Rice, you will take the five core courses\* for the MPH, described below and listed on the UTSPH website here:

<https://sph.uth.edu/academics/graduate-certificate-programs/public-health-certificate/>

***\*Registration for all of these courses at Rice requires a permission of instructor form, signed by Dr. Kirsten Ostherr, co-director of the Rice-UT Public Health Scholars Program.***

### PHM 2610 Fundamentals of Epidemiology

*3 credits*

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 emphasis is on public health practice of epidemiology, and this course serves as the core epidemiology course for most MPH students.

***At Rice: UNIV 012 001 (CRN: 24649) 3 credits***

### PH 1690 Foundations of Biostatistics

*4 credits*

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 MPH 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.

***At Rice: UNIV 010 001 (CRN: 24647) 3 credits***

### PHWM 2120 Man's Impact on the Environment or PHM 2110 Overview of Environmental Health

*3 credits*

The major goals of this course 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.

***At Rice: Man's Impact: UNIV 013 001 (CRN: 24650) or Overview: UNIV 014 001 (CRN: 24651) 3 credits***

## **PHM 3715 Introduction to Management and Policy Sciences**

*3 credits*

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.

***At Rice: UNIV 015 001 (CRN: 24652) 3 credits***

## **PHM 1110 Social and Behavioral Aspects of Community Health**

*3 credits*

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.

***At Rice: UNIV 011 001 (CRN: 24648) 3 credits***