

COURSE DESCRIPTION

FIRST YEAR

FIRST TRIMESTER

MPH 3101. Fundamentals in Public Health. Two (2) credits.

This course examines the major aspects of public health including definitions, theory, history, and practice in public health. The course covers the following core areas of public health: essential health services, health disparities, social sciences, environmental health, health promotion, and health policy and management.

MPH 3205. Environmental Health Perspectives in Public Health. Two (2) credits.

This course introduces the student to the environmental factors and their relation with human health. Topics included: water pollution, air pollution, environmental toxicology, food contamination, occupational safety and health, solid waste issues and ionizing and non-ionizing radiation.

MPH 5401. Behavioral Science in Public Health. Two (2) credits.

This course studies the social, behavioral and psychological factors related with disease occurrence among diverse populations. The course will enable students to describe the theoretical framework of the diverse social sciences disciplines such as psychology and anthropology and their application to public health. The course also will discuss the bio-psychosocial model as a core for health promotion and disease prevention.

MPH 5611. Global Health. Two (2) credits.

This course introduces the student to global health. Topics included: the burden and distribution of diseases, the determinants of global health disparities, global health policies and actions, and global health interventions.

SECOND TRIMESTER

MPH 3102. Statistical Methods I. Three (3) credits.

Course that introduces the student to the main concepts of statistical analysis for the application into the public health field. Topics included descriptive analysis of qualitative and quantitative variables, principles of probability, significance tests and regression and correlation principles.

MPH 3102 L. Laboratory of Statistical Methods I. One (1) credit.

This course will provide students with “hands on” practice of statistics applied to public health contemporary issues. Students are required to conduct practical exercises, assignments and quizzes regarding the topics covered on the Statistical Methods I course (MPH 3102).



MPH 3103. Epidemiologic Methods I & II. Four (4) credits.

This course introduces the main concepts of the epidemiologic principles for the study of occurrence of diseases. Topics included: the design of epidemiologic studies, descriptive and analytical epidemiology, principles of causality, hypothesis formulation and the scientific method.

THIRD TRIMESTER

MPH 7304. Epidemiology in Public Health Practice. Three (3) credits.

This course introduces to the principles and methods in public health practice based epidemiology. Emphasis will be given to topics such as: communicable and non-communicable diseases and for the fields of genetics, environment, and social health.

MPH 7202. Inferential Statistics. Three (3) credits.

This course introduces the students to advanced statistical analysis. Topics included two sample inference using t-distributions, analysis of variance, simple and linear multiple regressions. The course requires intensive hands on work in practical exercises.

MPH 5103. Surveillance in Public Health. Two (2) credits.

This course presents theory and practice of surveillance in public health. Topics included: types of surveillance programs, analysis and evaluation of surveillance programs for public health.

SUMMER SESSION

MPH 5321. Health Promotion & Disease Prevention. Two (2) credits.

This course will comprise the aspects of health education and health promotion programs for successful strategies for disease prevention. Topics in this course included: behavioral theories used for health program development, issues in implementation and evaluation of health promotion and disease prevention.

MPH 5301. Strategic Management of Health Services. Three (3) credits.

The purpose of this course is to provide the framework and theories of health management administration applied to the health field. The course will provide to the students with an overview with the basic concepts of strategic planning in the context of health care and community based organizations.

MPH 7201. Implementation, Monitoring and Evaluation of Community Health Programs. Three (3) credits.

This course introduces the student to the analysis of the effectiveness of community health programs. The course will discuss the concepts related with health evaluation and the implementation interventions programs in community settings.



SECOND YEAR

FOURTH TRIMESTER

MPH 9406. Field Work: Phase I. Five (5) credits.

Work in groups under supervision for the design and development of a research proposal project. Students will plan a research project applying the basic concepts and techniques of the scientific method. In Phase I, students will develop the written research proposal plan.

MPH 5602. Evidence Based Methods in Public Health. Two (2) credits.

This course examines the effective use of scientific evidence and data for policies and programs in public health. The course will discuss the challenges and strategies of translating research for effective implementation of policies, programs, and health interventions.

MPH 5101. Public Health Politics and Resource Allocation. Two (2) credits.

This course examines the health politics and policy in Puerto Rico as well in the United States. Topics included: access to health services, health insurances, state and federal regulations related with health services, the Puerto Rico health system, the role of institutions and government on the development and implementation of public health policy, methods of policy analysis and legal bases of public health.

FIFTH TRIMESTER

MPH 5201. Ethics and Public Health Law. Three (3) credits.

This course examines major ethical and legal concepts and their impact on public health policy and practice. Emphasis will be given to justice and equity as important concepts in public health practice.

MPH 5304. Public Health Informatics. Two (2) credits.

The purpose of this course is to introduce students to the basic principles of public health informatics understood as the systematic application of information and computer science and technology to public health practice, research, and learning.

MPH 9506. Field Work Phase II. Four (4) credits.

Work in groups under supervision for the execution of the research project based on a written research proposal plan. Students will conduct the methodology presented on their written research plans. During Phase II data collection, data entry and data analysis will be required.



SIXTH TRIMESTER

MPH 5601. Urbanism in Public Health. Two (2) credits.

This course presents the public health issues related with the urban environments. Topics included: urban population growth, housing issues, healthy cities and the built natural and socioeconomics environments and its relation with health and disease.

MPH 9606. Field Work Phase III. Six (6) credits.

Work in groups under supervision for the presentation of research results. Students are required to present written and oral results of their research projects findings.

