



Jinan University of Lebanon

Faculty of Public Health



**Course Descriptions for the Graduate Control of Infectious Diseases Program
2022/2023**

Common Track Courses

PHE400 Applications of Epidemiology in Public Health

This course includes an in-depth study of the epidemiology principles, concepts, and procedures useful in the surveillance and investigation of health-related states or events. The student will be familiarized with the theory and application of major statistical techniques used in public health as well as to the concept of incidence and prevalence of both communicable and non-communicable diseases. Examples will be stressed with reference to assumptions and limitations. This course will also provide students with necessary skills needed to interpret the epidemiologic literature relevant to health education and health communication.

PHE410 Legal, Ethical, and Social Issues in Public Health

This course focuses on the systematic approaches of ethics and offers a wide spectrum overview of professional ethical concerns including: the nature of health, disease and illness, health promotion and disease prevention, rights, access, and the limits of health care, the physician-patient relationship truth telling and confidentiality, influence of the administration in health service organizations, the formation of health policy, and the planning of health services. Problems that will be discussed also include: issues emerging during moral judgment, cultural relativism, and subjectivism. The course would also introduce the students to potential legal, ethical, and social barriers complicating the incursion of new advances in public health and related-technologies into public and private healthcare delivery efforts.

PHE420 Statistical Models in Public Health

This course covers the aspects of collection, statistical modeling, and methods used in complex biomedical and public health data analysis. Case-based models with primary emphasis on translating subject-area questions into statistical models will also be presented. Students will be trained on the implementation of these models and the interpretation of outputs. The course also highlights the linkage between statistical and subject-area science and policy aspects of the models.

PHE430 Health Informatics

The course covers the major concepts and practices of health informatics including major applications, commercial vendors, decision support methods and technologies, analysis, design, implementation, and evaluation of healthcare information systems. International standards, new opportunities, and emerging trends and current challenges in the development and implementation of health informatics for problem based learning approaches (PBL) or implicated in inter-disciplinary health care systems are also visited.

PHE440 Health Policy Development

This course considers economic, socio-political, and other forces that influence policy formulation and access to care. It gives an overview of the administrative problems and interventions that affect all public health practitioners while formulating and applying public health policies to improve health care, health care delivery, and the health status of populations.



Specialty Track Courses

CID450 Clinical Microbiology and Infectious Diseases

This is a multi-disciplinary course which provides a sound theoretical background in leading edge clinical microbiology, virology, parasitology, and mycology. It also offers specialist knowledge and insight in key aspects of infectious diseases, different ways of germs' transmission, stages of evolution of infectious or parasitic diseases, circumstances of occurrence of infectious and parasitic diseases, and the general methods of prevention and treatment.

CID460 Disinfection and Hospital Environment

This course offers an overview of contemporary infection control practices aiming at greatly reducing hospital associated infections. This includes the realization of environmental controls (air, water, surfaces, and others) that fit as part of policies to minimize nosocomial infections and to protect patients, care givers, and visitors in a cost-effective manner. Indicators, methodologies, and ways of interpretation of results are also discussed in the context of the quality management of infectious disease risk.

CID470 Control of Infectious Diseases

This course aims to bridge the disciplines of epidemiology, laboratory sciences, public health, and policy formulation. It overviews the comprehensive and systematic approaches applicable to the different sectors of the health care system, including institutions of public health, long term care and acute care, aiming at reducing the risk of infectious diseases and other diseases caused by organisms with high epidemiological risk. This course will equip students with specialized skills that will facilitate a career as staff of hospitals, health ministries, universities, aid organizations or international disease control agencies.

CID500 Risk Management

This course deals with the management of major risks encountered in public health at the levels of individuals, infrastructures, and properties. The theoretical foundations of different contributing disciplines to risk management and management of major disasters are also included. Subjects included in this course also cover: the risk perception of different groups of people, analysis and prediction of the behavior of individuals in times of crisis, most effective ways to communicate with individuals and communities, evidence-based assumptions of natural hazards, detection techniques of natural hazards, and the development of appropriate protection programs.

CID510 Control of Nosocomial Infections

This course presents methods used in the assessment of the level of hygiene in health care institutions and ways to prevent the risk of nosocomial infection within such institutions. The course emphasizes the need for health care providers for the following objectives: to consider the risk of infection in their daily practice, to engage in coherent preventive strategies within respective establishments, and to detect dysfunctions and propose suggestions for improvement.

CID520 Current Topics in Infectious Diseases

This course is designed to explore current cutting edge research in the field of control of infectious disease in an advanced seminar-style format. The implicit and explicit knowledge of the student in the field is assessed through given assignments, required readings, authoring short reports, presenting seminars, and active discussions.



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Thesis Courses

CID598 Independent Study

The student has to develop a proposal for an empirical research in consultation with a faculty supervisor. The proposed topic has to be successfully presented by the student and approved by a faculty committee.

CID599 Master's Thesis

This is a research-based thesis that offers students the opportunity to work on a comprehensive, individual project of suitable complexity for results to be published for expert audience. Supervisors are expected to guide students in planning, conducting, and writing the thesis with the belief that writing is thinking, writing is design, and writing forces students to visualize their ideas into reality.