



CANADIAN
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Master of Public Health (MPH) Course Description

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Master of Public Health (Mph) Course Information

Determinants of Health-MPH 600 (3 Credit Hours)

This course examines the social determinants of health from an interdisciplinary perspective, focusing on social inequalities and well-being and discusses the key factors which can lead to poor quality of life and health. The course considers the interrelationships among health and poverty, child abuse and neglect, education inequality, lifestyle challenges, unemployment, mental health and human distress, environment, obesity, and food security. The course will also enable public health students to identify and employ the most appropriate health care, social and economic interventions to support those at the edge of the community. The course compares between a Canadian perspective and the international perspective of social determinants of health mentioned above.

Epidemiology for Public Health-MPH 601 (3 Credit Hours)

This course covers the fundamentals of epidemiology. Topics include basic epidemiologic principles, descriptive epidemiology, epidemiological study designs and applications, epidemiological data measurements, bias and confounding, surveillance and screening, epidemiology of infectious diseases and global outbreaks, epidemiologic aspects of work and the environment, social, behavioral, and psychosocial epidemiology, and epidemiology and health policy.

Biostatistics-MPH 602 (3 Credit Hours)

This course introduces students to methods and concepts of statistical analysis and sampling, with special attention to those occurring in public health. Topics include sources of data, descriptive analysis and data visualization, probability and distributions, estimation, tests of hypotheses, types of error, significance, confidence levels, sample size and power, and regression analysis.

Studies in Environmental Health and Sustainability-MPH 603 (3 Credit Hours)

This course introduces the students to the concept of sustainability from an environmental perspective. The course focuses on environmental quality impacts, natural resources management, risk assessment, sustainable designs, environmental justice, and sustainable governance. A particular emphasis will be given to sustainable development and the challenges and opportunities to sustainability in practice.

Health Leadership and Management-MPH 604 (3 Credit Hours)

This course provides a comprehensive overview of the main theories, principles, and functions of health management. It also introduces to the student various aspects of leadership such as styles, models, and practice needed in the healthcare settings to make the healthcare delivery effective and efficient. The course discusses the interrelations and distinction between leadership and management and how and when both are applied and used in healthcare. The course provides the students the required knowledge and understanding about the key functions and processes of healthcare management that are needed to run the organizations such as planning, human resource and financing management, information and technology, quality management, and ethics and law compliance. The course addresses current challenges and problems that healthcare management and leadership are facing at the local and international levels, and it provides the skills and competencies to examine and analyze the problems related to leadership and management and essentially train the students how to propose useful solutions and recommendations to improve the performance and outcomes of healthcare leadership and management at the systems, institution, and individual levels.

E-Health Innovation-MPH 605 (3 Credit Hours)

The course enables learners to practice the process of innovation to improve the quality and delivery of health care and services. This course provides students with introductions to various health innovations, including pathways, technology, techniques and outcomes. Students will examine where changes to the health system should be made and where

opportunities for improvement arise. Students will apply entrepreneurship processes and concepts to address these opportunities and develop business plans and to address them.

Occupational Health and Safety-MPH 606 (3 Credit Hours)

This course overviews the principles of occupational health and safety. Students in this course will identify occupational hazards, work related injuries and illnesses in workplaces and then propose monitoring, prevention, and management techniques to decrease negative impacts on workers. Moreover, it covers national and international occupational health and safety legislations and regulations.

Public Health Policy and Advocacy-MPH 607 (3 Credit Hours)

This course provides a broad overview of the fundamental elements of public health policy and advocacy. It discusses concepts, frameworks, approaches, and strategies to promote evidence-informed policymaking in public health. Students are provided with the skills to define and frame policy problems and assess underlying factors, develop and frame policy options, and assess options regarding benefits, harms, risks, stakeholder reactions, and implementation considerations. The course is structured to address the following public health policy and advocacy topics, including the process of public health policy formulation, interrelationships with other systems and factors, stakeholders involved and their roles, financial and economic consideration of public health policy, healthcare quality, and people's health rights and the role of health and legal systems in protecting them. The course also focuses on advocacy and its effective role in the policymaking and change process. During this course, the students will learn and gain the knowledge, skills, and practical experience that improve the competencies of formulating public health policies, planning and implementing advocacy public health initiatives and campaigns, writing policy analysis, and evaluating public health policies and advocacy interventions in the local and international context.

Health Promotion-MPH 608 (3 Credit Hours)

This foundation course introduces students to the fundamental principles and disciplinary concepts of health promotion nationally and internationally as well as emerging frameworks and approaches. This course ensures students acquire foundational knowledge and skills required for competent health promotion practice, understand the evidence for effective health promotion and its influence on policy, new perspectives and developments in health promotion policy and practice, and the impact of future social, economic and political trends.

Research Methods in Public Health-MPH 609 (3 Credit Hours)

This course will provide an opportunity to explore research ethics, design (quantitative and qualitative methods), collection and reporting of data, interpretation of findings and build a research topic on the current public health issues. The whole learning process starts from the development of a research question, and end with writing a research proposal and presenting research ideas in public health. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting research and evaluation.

Dissertation-MPH 610 (6 Credit Hours)

The purpose of the course is for the student to write a scientific master's dissertation. The student will complete the literature review, collect the relevant data, carry out the statistical analysis, interpret the results, as well as presents finding of the research orally and in writing within the field of public health. The student will defend the dissertation in front of dissertation examination committee. Throughout the dissertation work, a critical and scientific approach is necessary as well as the use of academic language both in written and oral communications.

Practicum-MPH 620 (3 Credit Hours)

This course is designed to provide students with opportunities to expand their awareness and understanding of the various fields of work and study that are impacted by the public

health discipline and in which students in public health often develop careers. Students will engage in supervised work within the field of public health at a professional site of their choosing. They will coordinate their work with the practicum coordinator and worksite supervisor. This course offers an opportunity to get real-world experience in the broad field of public health to develop skills that will help them in their future career.