

## MPH Core Competencies

CC1. Apply epidemiological methods to the breadth of settings and situations in public health practice
CC2. Select quantitative and qualitative data collection methods appropriate for a given public health context
CC3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
CC4. Interpret results of data analysis for public health research, policy or practice
CC5. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
CC6. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels
CC7. Assess population needs, assets and capacities that affect communities' health
CC8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
CC9. Design a population-based policy, program, project or intervention
CC10. Explain basic principles and tools of budget and resource management
CC11. Select methods to evaluate public health program
CC12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
CC13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
CC14. Advocate for political, social or economic policies and programs that will improve health in diverse populations
CC15. Evaluate policies for their impact on public health and health equity
CC16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
CC17. Apply negotiation and mediation skills to address organizational or community challenges
CC18. Select communication strategies for different audiences and sector
CC19. Communicate audience-appropriate public health content, both in writing and through oral presentation
CC20. Describe the importance of cultural competence in communicating public health content
CC21. Integrate perspectives from other sectors and/or professions to promote and advance population health
CC22. Apply systems thinking tools to a public health issue

### **MPH Health Management and Policy Concentration Competencies**

HMPCC1: Assess how the structure, organization, delivery, and financing of health care systems affect system performance in terms of efficiency, quality, equity, and effectiveness
HMPCC2: Apply systems thinking approaches to improve healthcare organizations' performance and responsiveness
HMPCC3: Apply quality tools and concepts to evaluate and improve performance in health care organizations
HMPCC4: Apply the principles of planning, budgeting, management and evaluation in healthcare related programs and projects
HMPCC5: Analyze relevant financial data for efficient management of healthcare programs and organizations
HMPCC6: Utilize health information systems and data analytics to support evidence-based decision making at the organizational and system levels
HMPCC7: Apply public policy principles, frameworks and tools to understand health problems and priorities
HMPCC8: Evaluate policy options to address health challenges including economic, legal and political implications
HMPCC9: Utilize knowledge translation strategies and tools to communicate effectively and influence health policy and system decision making

### **MPH Health Promotion and Community Health Concentration Competencies**

HPCHCC1. Demonstrate a critical understanding of multidisciplinary theories/frameworks utilized in health promotion research and practice
HPCHCC2. Employ theoretical knowledge and methodological skills in health promotion program planning, implementation, monitoring, and evaluation
HPCHCC3. Conduct rigorous quantitative and qualitative research for health promotion
HPCHCC4. Use participatory approaches in community health programs and research
HPCHCC5. Promote social justice and equity in health promotion research, practice, and policy

### **MPH Epidemiology and Biostatistics Concentration Competencies**

EBCC1: Discuss the extent, distribution and determinants of common and emerging communicable and non-communicable diseases, and mental health disorders of local, regional and global importance
EBCC2: Discuss prevention and control strategies/programs for common and emerging communicable and non-communicable diseases and mental health disorders
EBCC3: Design epidemiological studies to investigate public health research questions
EBCC4: Demonstrate ability to write software codes in order to manage and analyze health data through the use of multiple statistical software
EBCC5: Apply inferential statistics and advanced statistical approaches such as regression modelling to analyze complex health related data
EBCC6: Interpret and communicate statistical findings in oral and written format
EBCC7: Review, synthesize and communicate published epidemiological findings in oral and written format
EBCC8: Appraise the quality of epidemiological evidence by evaluating studies for bias and other sources of systematic errors
EBCC9: Analyze Health related data using advanced statistical techniques and software packages