

# PUBLIC HEALTH, MPH

## Student Learning Outcomes

Upon completion of the MPH program, graduates will be able to:

- Analyze determinants of health and disease using an ecological framework.
- Apply epidemiologic methods to address scientific, ethical, economic, and political discussions related to public health issues.
- Apply descriptive and inferential statistical methods to inform public health research, practice, and policy.
- Identify genetic, physiologic, and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.
- Describe the legal and ethical bases for public health and health services.
- Apply the principles of program planning, development, budgeting, management, and evaluation in organizational and community initiatives.
- Compare basic theories, concepts, and models from a range of social and behavioral disciplines used in public health research and practice.
- Apply informatics and communication methods and resources as strategic tools to promote public health.
- Apply basic principles of ethical analysis (e.g. the Public Health Code of Ethics, human rights framework, and other moral theories) to issues of public health practice and policy.

## Council on Education for Public Health Competencies

### Evidence Based Approaches to Public Health

- Apply epidemiological methods to the breadth of settings and situations in public health practice
- Select quantitative and qualitative data collection methods appropriate for a given public health context
- Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
- Interpret results of data analysis for public health research, policy or practice

### Public Health & Health Care Systems

- Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
- 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

### Planning & Management to Promote Health

- Assess population needs, assets and capacities that affect communities' health
- Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
- Design a population-based policy, program, project or intervention
- Explain basic principles and tools of budget and resource management
- Select methods to evaluate public health programs

### Policy in Public Health

- Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
- Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
- Advocate for political, social or economic policies and programs that will improve health in diverse populations
- Evaluate policies for their impact on public health and health equity

### Leadership

- Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
- Apply negotiation and mediation skills to address organizational or community challenges

### Communication

- Select communication strategies for different audiences and sectors
- Communicate audience-appropriate public health content, both in writing and through oral presentation
- Describe the importance of cultural competence in communicating public health content

### Interprofessional Practice

- Perform effectively on interprofessional teams

### Systems Thinking

- Apply systems thinking tools to a public health issue

### Health Disparities in Urban Communities Competencies

- Evaluate the extent to which principles of community based participatory research (CBPR) have been used in planning, development, and evaluation of public health programs and research with diverse populations.
- Utilize community participatory methods to engage a community organization to assess and/or address a community health issue
- Conduct an environmental health assessment in a local community.
- Prepare a research grant proposal to advance health equity
- Develop recommendations to promote health equity related to identified disparities for an urban health issue.
- Use informatics to synthesize population health data related to an urban health issue.