Educational Objectives

Educational Objectives for all MPH students

1. Apply epidemiological methods to the breadth of settings and situations in public health practice.
2. Select quantitative and qualitative data collection methods appropriate for a given public health context.
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy or practice.
5. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings.
6. 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.
7. Assess population needs, assets and capacities that affect communities' health.
8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs.
9. Design a population-based policy, program, project or intervention.
10. Explain basic principles and tools of budget and resource management.
11. Select methods to evaluate public health programs.
12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence.
13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.
14. Advocate for political, social or economic policies and programs that will improve health in diverse populations.
15. Evaluate policies for their impact on public health and health equity.
16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
17. Apply negotiation and mediation skills to address organizational or community challenges.
18. Select communication strategies for different audiences and sectors.
19. Communicate audience-appropriate public health content, both in writing and through oral presentation.

20. Describe the importance of cultural competence in communicating public health content.
21. Perform effectively on inter-professional teams.
22. Apply systems thinking tools to a public health issue.

Environmental Health Objectives

Environmental Health Specific Objectives

1. Be able to apply approaches to assessing, prevent and control global environmental hazards that pose risks to human health, and recount major human health effects associated with these hazards.
2. Explain and predict factors (including genetic, physiological and psychosocial) which influence susceptibility to environmental agents, and describe routes of exposure and mechanisms that cause toxicity and affect human health.
3. Analyze the stakeholders and the multiple dimensions of environmental health policy, and how these are reflected in the local, state and federal environmental health agencies and major environmental health laws, guidelines and regulations.
4. Evaluate and present significant gaps to understanding sources, exposure, health effects, and control of environmental agents.
5. Design and create laboratory and/or field studies investigating environmental hazards and collect, analyze and interpret the data.
6. Effectively communicate environmental public health to diverse stakeholders and audiences.
7. Integrate core public health approaches to solving environmental health problems.
8. Apply problem-solving, advocacy and leadership skills to furthering environmental public health in the context of a community-based organization.
9. Analyze and discuss ethical issues and environmental justice in environmental health and the relationship to health and exposure disparities.
10. Explain and advocate for sustainability practices that promote planetary health, and mitigate adverse public health effects of climate change.