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MPH FOUNDATIONAL COMPETENCIES

Evidence-based Approaches to Public Health

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

Public Health & Health Care Systems

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

Planning & Management to Promote Health

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

**Policy in Public Health**

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

**Leadership**

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

**Communication**

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
Interprofessional Practice

21. Perform effectively on interprofessional teams

Systems Thinking

22. Apply systems thinking tools to a public health issue
DrPH FOUNDATIONAL COMPETENCIES

Data & Analysis

1. Explain qualitative, quantitative, mixed methods and policy analysis research and evaluation methods to address health issues at multiple (individual, group, organization, community and population) levels

2. Design a qualitative, quantitative, mixed methods, policy analysis or evaluation project to address a public health issue.

3. Explain the use and limitations of surveillance systems and national surveys in assessing, monitoring and evaluating policies and programs and to address a population’s health.

Leadership, Management & Governance

4. Propose strategies for health improvement and elimination of health inequities by organizing stakeholders, including researchers, practitioners, community leaders and other partners

5. Communicate public health science to diverse stakeholders, including individuals at all levels of health literacy, for purposes of influencing behavior and policies

6. Integrate knowledge, approaches, methods, values, and potential contributions from multiple professions and systems in addressing public health problems.

7. Create a strategic plan

8. Facilitate shared decision making through negotiation and consensus-building methods

9. Create organizational change strategies

10. Propose strategies to promote inclusion and equity within public health programs,
11. Assess one’s own strengths and weaknesses in leadership capacities, including cultural proficiency

12. Propose human, fiscal, and other resources to achieve a strategic goal

13. Cultivate new resources and revenue streams to achieve a strategic goal

Policy & Programs

14. Design a system-level intervention to address a public health issue

15. Integrate knowledge of cultural values and practices in the design of public health policies and programs

16. Integrate scientific information, legal and regulatory approaches, ethical frameworks and varied stakeholder interests in policy development and analysis

17. Propose interprofessional team approaches to improving public health

Education & Workforce Development

18. Assess an audience’s knowledge and learning needs

19. Deliver training or educational experiences that promote learning in academic, organizational or community settings

20. Use best practice modalities in pedagogical practices
COMMUNITY HEALTH SCIENCES (CHSC) DEPARTMENTAL COMPETENCIES

MPH Competencies

1. Apply theories, concepts, and models from a range of social and behavioral disciplines used to inform public health research and evidence-based practice.
2. Analyze historical, social and community factors in the onset and persistence of contemporary health inequities in immigrant and urban populations.
3. Engage communities, government, industry, academia, and/or other stakeholders in the development and design of research and interventions, both policy and programmatic, to improve the health of immigrant and urban populations.
4. Evaluate methods for conducting a community health assessment.
5. Design an evaluation of health promotion strategies for immigrant and urban populations that critically applies methods and frameworks.

DrPH Competencies

1. Analyze historical, social and community factors in the onset and persistence of contemporary health inequities in immigrant and urban populations.
2. Design and conduct a qualitative research study.
3. Utilize theories, concepts, and models from a range of disciplines to the design and conduct of community-engaged research and community-based interventions.
4. Design and implement an evaluation to inform the development of sustainable public health interventions.
5. Demonstrate leadership when developing, tailoring, and communicating public health information to diverse audiences.
ENVIROMENTAL AND OCCUPATIONAL HEALTH SCIENCES (EOHS) DEPARTMENTAL COMPETENCIES

**MPH Competencies**

1. Describe federal and state regulatory agencies, programs, policies, and guidelines designed to prevent and control environmental and occupational health hazards and to achieve environmental equity

   (EOHS 5200; EOHS 5201; EOHS 5203; EOHS 5205)

2. Identify environmental and occupational hazards and social contextual factors that influence working conditions and contribute to injury, illness, and health inequities

   (EOHS 5201; EOHS 5202; EOHS 5203; EOHS 5205)

3. Describe the effectiveness of environmental and occupational health programs, policies, organizations, and legal systems to reduce injuries, illnesses and promote health equity

   (EOHS 5200; EOHS 5201; EOHS 5202)

4. Identify strategies for assessment, prevention, and control of environmental and occupational health hazards

   (EOHS 5200; EOHS 5203; EOHS 5205)

5. Gain an understanding of complex environmental systems, including climate change, and learn methods for measuring their impacts on human health

   (EOHS 5200; EOHS 5203)

**DrPH Competencies**

1. Assess and evaluate current environmental health risk assessment methodologies.

   (EOHS 7202)
2. Evaluate the performance and impact of federal and state regulatory agencies and programs, policies, legal systems, health surveillance systems and organizations designed to prevent and control occupational hazards and reduce injuries, illnesses, and health disparities.

(EOHS 7203; EOHS 7205)

3. Assess the effectiveness of federal and state regulatory programs, guidelines and authorities that control environmental and occupational health issues, and to achieve environmental justice when applicable.

(EOHS 7300; EOHS 7203)

4. Delineate and investigate various risk management and risk communication approaches in relation to issues of environmental and occupational justice and equity.

(EOHS 7203; EOHS 7205)

5. Assess and prioritize occupational hazards and social contextual factors, including socioeconomic status, immigration status, labor relations and government regulations that influence working conditions and contribute to injury, illness, and health disparities.

(EOHS 7300)
EPIDEMIOLOGY & BIOSTATISTICS (EPID/BIO) DEPARTMENTAL COMPETENCIES

Epidemiology

1. Describe patterns in the incidence and prevalence of diseases affecting the health of immigrant and urban populations, including etiologic and prognostic factors.

2. Develop scientific hypotheses, identify data sources, and design and conduct epidemiologic studies to test those hypotheses.

3. Evaluate the effect of selection and information bias, confounding, and random error on epidemiologic investigations and determine how they may be mitigated or prevented using study design or analytic techniques.

4. Use statistical software packages to conduct analysis of epidemiologic data, with an emphasis on calculating measures of association, reducing confounding, and evaluating effect modification.

5. Evaluate the strengths and weaknesses of epidemiologic studies to explain the implications of epidemiologic research findings.

Biostatistics

1. Using statistical theory, select and apply statistical inference methods to evaluate public health research hypotheses.

2. Critically appraise public health research literature using knowledge of study design, statistical methods, and subject matter context.

3. Construct and manage databases for cross-sectional and longitudinal studies using statistical software.

4. Use statistical software packages to design rigorous studies and analyze continuous and categorical data with parametric, semi-parametric, and non-parametric statistical methods.
5. Effectively communicate biostatistical methods and results to professional and lay audiences.
HEALTH POLICY AND MANAGEMENT (HPMG) DEPARTMENTAL COMPETENCIES

1. Develop skills and resources for the effective management of the delivery of health care services. (5203)

2. Apply principles and methods of policy development and analysis to the examination of key public health issues and advocate for health in all policies. (5202, 5204)

3. Communicate online, orally and in writing health policy and management issues using appropriate channels and technologies. (5202, 5203, 5207)

4. In collaboration with diverse populations, apply strategic solutions in the development of resources, policies, and health care needs. (5204)

5. Identify the political context and the stakeholders that collectively serve to influence, shape, and implement policies (5202)