OHSU-PSU School of Public Health MPH Program Competencies

Each MPH program has its own program-specific competencies. Click on your program to see your MPH program's competencies:

- Biostatistics
- Environmental Systems and Human Health
- Epidemiology
- Health Promotion
- Health Management and Policy
- Public Health Practice

Biostatistics

- 1. Apply appropriate principles of research design and population-based concepts to assess health problems.
- 2. Apply appropriate descriptive and inferential statistical methods to analyze risk determinants of disease and health conditions.
- 3. Apply descriptive and inferential statistical methods that are appropriate to the different study designs used in public health research.
- 4. Interpret and summarize results and communicate them to lay and professional audiences, in the contest of proper public health principles and concepts.
- 5. Evaluate strengths and weaknesses of alternative research designs and analytic methods, and critically review and assess statistical analyses presented in public health literature.
- 6. Apply basic ethical principles pertaining to the collection, maintenance, use, and dissemination of public health data.
- 7. Identify cultural dimensions of conducting research, including culturally sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

Environmental Systems & Human Health

- 1. Communicate the relationship between environmental systems and human health, particularly in response to a changing climate.
- 2. Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans.
- 3. Assess and interpret relevant literature in the area of public health and environmental hazards.
- 4. Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicological, and other relevant data into risk assessment methodology.
- 5. Discuss how federal and state regulatory programs, guidelines and authorities impact environmental and occupational health issues.
- 6. Apply ethical principles that govern the practice of environmental risk assessment, management, and communication.
- 7. Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety.
- 8. Integrate, synthesize and apply theory to practice in the context of a research study, policy consequences, or environmental exposure.
- 9. Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures.

Epidemiology

- 1. Apply population-based concepts of epidemiology and risk determination to the assessment of health problems.
- 2. Apply evidence-based knowledge of health determinants to public health issues.
- 3. Apply and interpret a variety of statistical methods commonly used in medical and public health research.
- 4. Propose and test a research hypothesis.
- 5. Identify ethical principles problems that arise in public health policy decisions.
- 6. Apply knowledge of cultural dimensions in conducting research, including culturally sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.
- 7. Integrate and apply relevant literature in epidemiology to public health issues and policy.
- 8. Communicate public health principles and concepts through various strategies across multiple sectors of the community.

Health Promotion

- 1. Apply theory in the development, implementation, and evaluation of health promotion interventions, programs, and policies.
- 2. Develop interventions and programs to effect change at multiple levels, including individual, community, organization, and policy.
- 3. Design and implement strategies to promote health.
- 4. Solicit and integrate input from community and organization stakeholders.
- 5. Design and deliver health communication messages.
- 6. Evaluate and interpret results from program evaluations and other research.
- 7. Define health problems, frame hypotheses, design research procedures, and outline methods of analysis.
- 8. Apply ethical principles that govern the practice of public health promotion.
- 9. Demonstrate cultural competency in health promotion among all social and cultural communities.

Health Management & Policy

- 1. Demonstrate effective verbal, written and interpersonal communication skills.
- 2. Demonstrate ethical, social, and cultural competency.
- 3. Engage with, and integrate the knowledge and experience of other health professions, stakeholders, and communities.
- 4. Demonstrate critical and self-reflective thinking.
- 5. Apply theory to practice to design, implement, manage, and evaluate organizational performance and health policy.
- 6. Apply policy process knowledge and advocacy techniques to develop and implement policies that advance health.
- 7. Select and apply appropriate methods to analyze, evaluate, and manage health system programs and services.
- 8. Demonstrate professionalism and leadership skills.

Public Health Practice

- 1. Assess, analyze, and synthesize the health status of vulnerable populations.
- 2. Identify, develop and manage interventions to promote and protect the health of populations at risk.
- 3. Lead and participate in inter-professional efforts to address health inequities with community partners.
- 4. Conduct, participate in or apply research, which improves the health of a population.
- 5. Assess and integrate cultural beliefs and practices into public health interventions.
- 6. Develop and plan interventions utilizing principles of health systems organization and health care finance to address health disparities.
- 7. Apply program planning and quality improvement principles in the development, management, and/or evaluation of population health services.
- 8. Demonstrate basic skills in the development of a grant proposal.
- 9. Employ techniques to manage human, fiscal, and other public health resources.