



**INTEGRATIVE LEARNING EXPERIENCE
PUBLIC HEALTH GENETICS MPH
ESSAY/THESIS FINAL ASSESSMENT**

MPH students are required to complete an essay or thesis that demonstrates synthesis of foundational and program-specific competencies. Students must complete this form with their advisor and submit upon completion of their essay/thesis.

Student Name: _____

Department: Human Genetics

Pitt Email: _____

Advisor Name: _____

Advisor Email: _____

Essay/Thesis Title:

Competencies: Identify the three competencies attained through essay/thesis activities. Two competencies must be selected from the [CEPH MPH Foundational Competencies](#) and one competency from the [HUGEN MPH Competencies](#).

- 1.
- 2.
- 3.

Comments: Add additional information in the space provided below

Please use DocuSign at my.pitt.edu for signatures.

Student Signature: _____ Date: _____

I attest the student demonstrated synthesis and integration of competencies in their essay/thesis.

Advisor Signature: _____ Date: _____

HUGEN MPH Competencies

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| HUGEN 1 | Apply knowledge of inheritance, including basic cellular and molecular mechanisms, and both genetic and non-genetic related risk factors for disease to understanding a variety of rare and common health conditions |
| HUGEN 2 | Assess and communicate the benefits, risks, and limitations of the integration of genetics and genomics principles and technologies into public health projects and initiatives |
| HUGEN 3 | Identify and assess the ethical, legal and social principles and issues important to public health genetics |
| HUGEN 4 | Effectively communicate genetic and genomic principles to the general public, public health professionals, and health care providers |
| HUGEN 5 | Evaluate how genetic principles/technologies apply to precision public health: the targeting of diagnosis, screening, and interventions for disease prevention and health promotion programs |
| HUGEN 6 | Promote integration of justice, health equity, diversity, and inclusion into genetics, public health genetics, and precision public health programs and initiatives |

CEPH MPH Foundational Competencies

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| MPH 1 | Apply epidemiological methods to settings and situations in public health practice |
| MPH 2 | Select quantitative and qualitative data collection methods appropriate for a given public health context |
| MPH 3 | Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming, and software, as appropriate |
| MPH 4 | Interpret results of data analysis for public health research, policy or practice |
| MPH 5 | Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings |
| MPH 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 systemic levels |
| MPH 7 | Assess population needs, assets, and capacities that affect communities' health |
| MPH 8 | Apply awareness of cultural values and practices to the design, implementation, or critique of public health policies or programs |
| MPH 9 | Design a population-based policy, program, project, or intervention |
| MPH 10 | Explain basic principles and tools of budget and resource management |
| MPH 11 | Select methods to evaluate public health programs |
| MPH 12 | Discuss the policy-making process, including the roles of ethics and evidence |
| MPH 13 | Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes |
| MPH 14 | Advocate for political, social, or economic policies and programs that will improve health in diverse populations |
| MPH 15 | Evaluate policies for their impact on public health and health equity |
| MPH 16 | Apply leadership and/or management principles to address a relevant issue |
| MPH 17 | Apply negotiation and mediation skills to address organizational or community challenges |
| MPH 18 | Select communication strategies for different audiences and sectors |
| MPH 19 | Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation |
| MPH 20 | Describe the importance of cultural competence in communicating public health content |
| MPH 21 | Integrate perspectives from other sectors and/or professions to promote and advance population health |
| MPH 22 | Apply a systems thinking tool to visually represent a public health issue in a format other than standard narrative |