INTEGRATIVE LEARNING EXPERIENCE
INFECTIOUS DISEASE PATHOGENESIS, ERADICATION,
AND LABORATORY PRACTICE MPH
ESSAY/THESIS AGREEMENT

MPH students are required to complete an essay or thesis that demonstrates synthesis of foundational and program-specific competencies. Students must submit this agreement approved by their faculty or essay/thesis advisor prior to beginning their essay/thesis.

Student Name: _____

Department: Infectious Disease Pathogenesis, Eradication, and Laboratory Practice

Pitt Email: _____

Advisor Name: _____

Advisor Email: _____

Are you working with data owned by an organization outside of Pitt Public Health?

If yes, please provide the following information.

Organization Name: _____

Organization Contact: _____

Will the organization contact be a member of your essay/thesis committee?

Essay/Thesis Title: Identify the title or topic of your essay/thesis.

Competencies: Identify three competencies that will be attained through essay/thesis activities. Two competencies must be selected from the CEPH MPH Foundational Competencies and one competency from the IDM-PEL MPH Competencies.

1.

2.

3.

Approvals: Please send via Docusign at my.pitt.edu.

Student Signature: _____   Date: _____

Advisor Signature: _____   Date: _____

IDM-PEL MPH Competencies

IDM-PEL 1	Discuss the general approaches used by successful microbial pathogens to establish disease
IDM-PEL 2	Suggest novel approaches to the prevention and control of infectious pathogens
IDM-PEL 3	Distinguish between the different types of host response mechanism and explain their relevance to various domestic and global infectious diseases
IDM-PEL 4	Differentiate between the various models of infectious disease spread in human populations
IDM-PEL 5	Analyze the unique molecular mechanisms used by infectious viruses to cause infection and evade immune response
IDM-PEL 6	Analyze and critique the current research literature on infectious disease pathogenesis

CEPH MPH Foundational Competencies

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