Appendix B: Program/Track-Specific Requirements (for PUBH 6022 and Applied Practice Experience (APEx))

<table>
<thead>
<tr>
<th>Department(s)</th>
<th>Track/Program</th>
<th>Track/Program-Specific 6022 Pre-or Co-requisites (i.e., before or concurrent)</th>
<th>Track/Program-Specific APEx Competencies (i.e., you will select 2 of your track/program-specific competencies to address for your APEx (in addition to 3 Foundational/Core competencies))</th>
</tr>
</thead>
</table>
| Biostatistics and Bioinformatics; Epidemiology | Biostatistics; Epidemiology                | PUBH 6002, 6003, 6012, 6021                                                   | • Identify and define a public health issue.  
• Develop a plan or proposal to apply the epidemiological principles needed to carry out the chosen public health Practice Activity.  
• Identify the appropriate data analysis methods.  
• Demonstrate competency in data collection.  
• Demonstrate proficiency in constructing and managing databases for epidemiological studies using statistical software, (e.g. The SAS® System). |
| Environmental and Occupational Health (EOH) | Environmental Health Science and Policy (EHS&P) | PUBH 6011, 6021                                                              | • Assess environmental and occupational exposures.  
• Prevent and control environmental and occupational hazards.  
• Identify the adverse effects of chemical, biological, and physical exposures on human health.  
• Interpret epidemiologic and other research findings related to environmental risks, and assist in designing and conducting research.  
• Synthesize relevant information in order to analyze EOH policy implications and participate in policy development.  
• Synthesize relevant information in order to assess and manage environmental and occupational risks.  
• Engage in public health communication and risk communication activities.  
• Identify ethical issues in environmental health policy and practice. |
| Global Environmental Health (GEH)          | Global Environmental Health (GEH)          | PUBH 6011, 6021                                                              | • Assess environmental and occupational exposures.  
• Recommend strategies to prevent and control environmental and occupational exposures.  
• Critically assess existing epidemiologic research.  
• Design appropriate studies for investigating EOH problems.  
• Conceptualize and carry out data analysis to address study goals.  
• Synthesize scientific evidence in order to inform global environmental health policy, and reduce and prevent environmental health-related disease and injury.  
• Conduct policy analysis relevant to global environmental health problems.  
• Synthesize relevant information in order to assess and manage environmental and occupational risks. |
| Exercise and Nutrition Sciences (EXNS)     | Public Health Nutrition                    | MPH Core* + PUBH 6242 and EXNS 6611                                          | • Understand the pathophysiology of selected chronic disease processes and the role that nutrition may play in the development of these diseases.  
• Understand the factors impacting the accessibility, availability, adequacy, and safety of the food and water systems serving a community.  
• Outline the relationship between community food and water systems and health outcomes.  
• Develop skills in nutrition assessment of both individuals and communities.  
• Utilize appropriate epidemiologic methods for developing and testing hypotheses relating to nutrition and health outcomes at the population level.  
• Develop skills in designing, implementing, and evaluating nutrition interventions to improve the health of communities.  
• Appreciate the role of public health policy in altering the food environment at the community level. |
|                                            | Physical Activity in Public Health         | MPH Core* + PUBH 6242 and EXNS 6611                                          | • Understand the pathophysiology of selected chronic disease processes.  
• Understand exercise physiology and the role of physical activity and exercise in health promotion and disease prevention.  
• Develop skills in physical activity assessment using state-of-the-art technology.  
• Utilize epidemiological methods to develop and test hypotheses pertaining to physical activity and health and disease outcomes at the population level.  
• Develop skills in designing, implementing, and evaluating interventions for improving physical activity at the community level.  
• Appreciate the role of public health policy in altering physical activity patterns at the community level. |

Note – updated January 2020, but subject to change.
## Appendix B: Program/Track-Specific Requirements (for PUBH 6022 and Applied Practice Experience (APEX))

<table>
<thead>
<tr>
<th>Program/Track</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| **GH Epidemiology and Disease Control** | - Apply epidemiological and multi-disciplinary concepts to identify, analyze and address global health challenges including burden of illness and the determinants and distribution disease in populations.  
- Select the appropriate qualitative and/or quantitative methods depending on the specific research or programmatic need and apply underlying principles to design and conduct such studies including observational and experimental designs, screening programs, and public health surveillance.  
- Apply appropriate data analysis methods and interpret the results from epidemiological studies.  
- Interpret and critique research and best practices to inform the development of evidence-based solutions for global health challenges.  
- Communicate evidence on global health topics to a variety of audiences including technical experts, policymakers, lay audiences, and other relevant stakeholders.  
- Work in a multidisciplinary team to identify and address the ethical issues of global health programs, policies and research.  
- Engage with diverse individuals, organizations, and communities with respect for different values, beliefs and practices.  
- Analyze multilevel determinants of problems in global health that form the basis for disease control strategies and interventions. |
| **GH Program Design, Monitoring, and Evaluation** | - Apply multi-disciplinary perspectives to identify, analyze, and address global health challenges.  
- Distinguish between qualitative and quantitative methods and select the appropriate method depending on the specific research or programmatic need.  
- Interpret and critique research and best practices to inform the development of evidence-based solutions for global health challenges.  
- Communicate public health evidence on global health topics to a variety of audiences, such as technical experts, policymakers, lay audiences, and other relevant stakeholders.  
- Identify and address the ethical issues of global health programs, policies and research.  
- Engage with diverse individuals, organizations, and communities with respect for different values, beliefs and practices.  
- Explain multilevel determinants of problems in Global Health and the basis for strategies and interventions.  
- Describe the governance and institutional landscape of global health.  
- Demonstrate professionalism in practice, research and in communication activities.  
- Utilize epidemiological data, program theory, programmatic evidence, and health systems and policy contextual information for the design of effective global health interventions and programs, as well as their monitoring and evaluation.  
- Compare and select monitoring frameworks and evaluation methods according to specified purposes for each.  
- Identify frameworks for the design of culturally acceptable and contextually feasible global health interventions and evaluations.  
- Apply research, leadership, and communication skills to support the design, implementation, evidence and policy cycle. |
| **GH Policy** | - Apply multi-disciplinary perspectives to identify, analyze and address global health challenges.  
- Analyze and design within context-specific health policy making process, implementation strategies and health interventions, supported in policy analytics, cultural and equity sensitivity and inter-cultural management.  
- Interpret and critique research and best practices to inform the development of solutions supported on evidence for global health determinants trends and challenges.  
- Communicate public health evidence on global health topics to a variety of audiences, such as technical experts, policymakers, lay audiences, and other relevant stakeholders, within different cultural and development contexts.  
- Identify and address the ethical issues of global health programs, policies and research.  
- Engage with diverse individuals, organizations, and communities with respect for different values, beliefs and practices, to advance public health policies understanding their specific political and cultural contexts.  
- Explain multilevel determinants of problems in Global Health, the application of epidemiologic methods into policy analysis, and their importance for the design of strategies and interventions. |
### Humanitarian Health

<table>
<thead>
<tr>
<th>Program/Track</th>
<th>Specific Requirements</th>
</tr>
</thead>
</table>
| **PubH 6002, 6003, 6021, 6400, 6416, 6480** | - Describe the governance and institutional landscape of global health, including the consideration of multi-agency policy-making, the interrelationship of foreign policy and health diplomacy, and the critical issues of transnational movement of goods and people.  
- Demonstrate professionalism in practice, research and in communication activities.  
- Distinguish between qualitative and quantitative methods, and select and apply the appropriate methodologic mix to the specific global health policy analysis and audience, programmatic need or research.  
- Describe various context-specific designs and capacity assessment of health systems, analyze major multi-institutional and multi-sectoral initiatives and partnerships affecting their performance in global health, to make recommendations on capacity strengthening from an organizational, workforce and financial perspective.  
- Assess the historical and ongoing development of international health regulations and intellectual property rights and how they could be addressed through national and international policies. Understand the building of partnerships in global public health, and the specific context-specific cultural and potential conflict of interest. Understand the role of international rights, partnership in controlling a major epidemic or health emergency.  
- Assess the relationship between the protection, promotion, and progressive realization of human rights and global health outcomes.  
- Describe the global economic trends and challenges faced by low and middle-income countries, and the within country disparities and inequities, regarding health status of their populations and health care delivery options and how different policy approaches can be used to address these challenges.  
- Identify and address the ethical and socio-cultural issues of humanitarian programs, policies and research.  
- Explain and analyze major problems and challenges, and their multilevel determinants, challenges in humanitarian settings and strategies and interventions to address them.  
- Describe the institutional landscape and the governance system in the aid system, and the interrelationship of foreign policy and health outcomes in humanitarian settings.  
- Communicate public health and medical evidence on humanitarian topics to a variety of audiences including technical experts, lay population, policymakers, and other relevant stakeholders while engaging and working with diverse individuals, organizations, and communities with respect for different values, beliefs and practices.  
- Apply principles of and select monitoring frameworks and evaluation methods for effective humanitarian interventions  
- Understand and apply leadership and management skills to support implementation of humanitarian operations and policy changes at international level.  
- Describe various context-specific designs and capacity assessment of humanitarian system and programming, analyze major multi-institutional and multi-sectoral challenges and initiatives and partnerships affecting their performance in humanitarian aid system for sound practice recommendations.  
- Describe and assess the inter-relationship between the protection, health promotion, and human rights and population outcomes in humanitarian situations.  
- Understand and apply the principles of rigorous researching and critical appraisal of publications and evidence, and writing and presenting the findings of research projects in humanitarian settings.  
- Describe and address current main communicable, non-communicable, and other pathologies across the populations, geographic locations, and social and political contexts in the humanitarian field. |

### Health Policy and Management (HPM)

<table>
<thead>
<tr>
<th>Program/Track</th>
<th>Specific Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Health Policy</strong></td>
<td><strong>PubH 6012, 6021</strong></td>
</tr>
</tbody>
</table>
| **PubH 6012, 6021** | - Describing and critically assessing the political, legal, philosophical, economic, financial, and/or social framework of U.S. health policy, and demonstrating proficiency in applying that understanding to analysis of current health policy issues.  
- Locating, assessing, appropriately using, and synthesizing policy-relevant qualitative information relevant to key issues in US health policy, including a full range of evidence related to the legislative, regulatory, and judicial processes, peer-reviewed literature, and “gray” literature produced by policy analysis entities and organizations.  
- Locating, assessing, and appropriately using statistical and other data and the ability to conduct basic manipulations of data. |
## Appendix B: Program/Track-Specific Requirements (for PUBH 6022 and Applied Practice Experience (APEx))

<table>
<thead>
<tr>
<th>Program/Track</th>
<th>Course Requirements</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| MPH@GW (online program) | General MPH MPH Core* | • Comparatively analyzing legislation and administrative regulations, and analyzing and interpreting judicial opinions and agency rulings.  
• Assessing the methodology and quality of research results, and synthesizing findings for policy analyses.  
• Applying the core elements of a policy analysis to key issues in US health services and public health policy through both short and long written papers, and in oral presentations of policy analyses.  
• Define communities and identify and assess relevant population health needs.  
• Assess the functions, capacities, management and governance of governmental, international and non-state organizations that comprise health systems.  
• Translate scientific and program evidence to inform the development of public health programs and policies within the context of health systems.  
• Apply public health theory and experiential evidence to develop and manage project, program and institutional strategies to reduce community and individual health risks to mitigate the impact of disease.  
• Apply relevant quantitative tools and concepts to inform different audiences and public health topics.  
• Describe how health systems performance is affected by various approaches to health care organization, health law, health workforce development and health care financing.  
• Develop communication campaigns and strategies to disseminate health promotion information via media channels. |
| Prevention and Community Health (PCH) | Community-Oriented Primary Care (COPC) MPH Core* + PUBH 6510 | • Communicate and discuss the principles and methods of COPC.  
• Define, characterize communities and identify its health needs which will be the focus of a COPC practice.  
• Prioritize community health issues using the principles of COPC.  
• Gather best-practices models for community-based interventions and the necessary quantitative and qualitative information for implementation in the focus community.  
• Implement individual behavior change interventions in clinical settings.  
• Develop skills to manage community health organizations.  
• Develop and implement interventions using COPC principles including community participation and partnership.  
• Evaluate and analyze community-based interventions and COPC programs.  
• Identify, analyze, and discuss the role of COPC in underserved within vulnerable communities.  
• Develop and implement a COPC process in clinical health services and community-based organizations and settings.  
• Analyze policies, issues, and programs that impact COPC practice.  
• Develop skills to implement, evaluate and publish the results of a COPC intervention in a peer-reviewed journal. |
|  | Health Promotion MPH Core* | • Assess the individual, community, organizational and societal needs of the general public and at-risk populations.  
• Plan health promotion/education strategies, interventions, and programs that are theory-based and evidence-based and are culturally appropriate to improve the health of the public.  
• Implement health promotion and health education strategies, interventions and programs to meet the health needs of the public.  
• Conduct evaluation of health promotion program and conduct research related to health promotion and health education.  
• Administer and manage health promotion strategies, interventions, and programs.  
• Develop communication campaigns and strategies to disseminate health promotion information via media channels.  
• Develop and implement advocacy strategies to improve law, policy and social norms that support public health. |
|  | Maternal and Child Health (MCH) MPH Core* + PUBH 6550 | • Assess the individual, community, organizational and societal needs of women, children, and families.  
• Develop strategies, interventions, and programs to improve the health of women, children, and families.  
• Implement strategies, interventions, and programs to meet the health needs of women, children, and families.  
• Conduct evaluation and research related to the health and well-being of women, children, and families.  
• Administer MCH strategies and policies to improve the health and well-being of women, children, and families.  
• Communicate and advocate for health and well-being of women, children, and families.  
• Incorporate a life course perspective to the health and well-being of women, children, and families. |
<table>
<thead>
<tr>
<th>PH Communications and Marketing (PHCM)</th>
<th>MPH Core* + PUBH 6503 (can be co-req w/ PUBH 6022)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>•</strong> Apply an ecological framework to assess and promote population health.</td>
<td></td>
</tr>
<tr>
<td><strong>•</strong> Use marketing research to develop and improve public health programs.</td>
<td></td>
</tr>
<tr>
<td><strong>•</strong> Develop and administer communication programs to promote individual- and population-level behavior change.</td>
<td></td>
</tr>
<tr>
<td><strong>•</strong> Develop and administer marketing programs to promote individual- and population-level behavior change and improve the health capacity of communities.</td>
<td></td>
</tr>
<tr>
<td><strong>•</strong> Develop and administer communication programs to promote the adoption of policies that enhance health.</td>
<td></td>
</tr>
<tr>
<td><strong>•</strong> Evaluate public health communication and marketing initiatives.</td>
<td></td>
</tr>
</tbody>
</table>

*MPH Core: 6002, 6003, 6007, 6009, 6011, 6012, 6021*