

**D2. MPH Foundational Competencies**

The school documents at least one specific, required assessment activity (e.g., component of existing course, paper, presentation, test) for each competency, during which faculty or other qualified individuals (e.g., teaching assistants or other similar individuals without official faculty roles working under a faculty member’s supervision) validate the student’s ability to perform the competency.

Assessment opportunities may occur in foundational courses that are common to all students, in courses that are required for a concentration or in other educational requirements outside of designated coursework, but the school must assess all MPH students, at least once, on each competency. Assessment may occur in simulations, group projects, presentations, written products, etc. This requirement also applies to students completing an MPH in combination with another degree (e.g., joint, dual, concurrent degrees).

Since the unit must demonstrate that all students perform all competencies, units must define methods to assess individual students’ competency attainment in group projects Also, assessment should occur in a setting other than an internship, which is tailored to individual student needs and designed to allow students to practice skills previously learned in a classroom. Additionally, assessment must occur outside of the integrative learning experience (see Criterion D7), which is designed to integrate previously attained skills in new ways.

These competencies are informed by the traditional public health core knowledge areas, (biostatistics, epidemiology, social and behavioral sciences, health services administration and environmental health sciences), as well as cross-cutting and emerging public health areas.

- 1) List the coursework and other learning experiences required for the school’s MPH degrees, including the required curriculum for each concentration. Information may be provided in the format of Template D2-1 or in hyperlinks to student handbooks or webpages, but the documentation must present a clear depiction of the requirements for each MPH degree.

Template D2-1

<b>Part A: Requirements for all MPH degrees (except a few joint degrees)</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Foundational Courses</i>		
PUBH 6002 Or PUBH 6853	Biostatistical Applications for Public Health Or Use of SAS for Data Management and Analysis <sup>43</sup>	3
PUBH 6003	Principles and Practices of Epidemiology	3
PUBH 6007	Social and Behavioral Approaches to Public Health	2
PUBH 6009 Or PUBH 6501	Fundamentals of Public Health Program Evaluation Or Program Evaluation <sup>44</sup>	2 Or 3
PUBH 6011	Environmental and Biological Foundations of Public Health	3
PUBH 6012	Fundamentals of Health Policy	2
PUBH 6021	Essentials of Public Health Practice and Leadership 1	1

<sup>43</sup> MPH in Biostatistics only

<sup>44</sup> MPH in Community-Oriented Primary Care; Global Health Program Design, Monitoring and Evaluation; Health Promotion; Maternal and Child Health; and Public Health Communication and Marketing only.

PUBH 6022	Essentials of Public Health Practice and Leadership 2	1
PUBH 6023	Interprofessional Education Experience	0
<i>Applied Practice Experience</i>		
PUBH 6000	MPH Applied Practice Experience	0
<b>TOTAL FOUNDATIONAL CREDITS</b>		<b>17-18</b>

<b>Part B: Requirements for MPH degree in Biostatistics</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6850	Introduction to SAS for Public Health Research	1
PUBH 6851	Introduction to R for Public Health Research	1
PUBH 6852	Introduction to Python for Public Health Research	1
PUBH 6862	Applied Linear Regression Analysis for Public Health Research	3
PUBH 6864	Applied Survival Analysis for Public Health Research	3
PUBH 6865	Applied Categorical Data Analysis for Public Health Research	3
PUBH 6866	Principles of Clinical Trials	3
PUBH 6868	Quantitative Methods	3
PUBH 6869	Principles of Biostatistical Consulting	1
	Electives	7
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
<b>TOTAL CREDITS</b>		<b>28</b>

<b>Part B: Requirements for MPH degree in Community-Oriented Primary Care</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6504	Social and Behavioral Science Research Methods	3
PUBH 6510	Community-Oriented Primary Care Principles and Practice	3
PUBH 6512	Community-Oriented Primary Care Policy and Issues	2
PUBH 6513	Community Health Management	2
PUBH 6514	Preventing Health Disparities	2
	Electives	10
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
<b>TOTAL CREDITS</b>		<b>27</b>

<b>Part B: Requirements for MPH degree in Environmental Health Science and Policy</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6121	Environmental and Occupational Epidemiology	3
PUBH 6122	Protecting Public Health and the Environment: Policies, Politics and Programs	3
PUBH 6123	Toxicology: Applications for Public Health Policy	3
PUBH 6124	Risk Management and Communication	3
PUBH 6126	Assessment and Control of Environmental Hazards	3
PUBH 6131	Quantitative Methods in Environmental and Occupational Health	3
	Electives	8

<i>Integrative Learning Experience</i>		
PUBH 6137	EOH Culminating Experience 1	1
PUBH 6138	EOH Culminating Experience 2	1
<b>TOTAL CREDITS</b>		<b>28</b>

<b>Part B: Requirements for MPH degree in Epidemiology</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6247	Epidemiologic Methods 1: Design of Health Studies	3
PUBH 6853	Use of SAS for Data Management and Analysis	3
PUBH 6252	Epidemiologic Methods 2: Advanced Epidemiologic Methods	3
PUBH 6260	Applied Epidemiologic Data Analysis	3
	Electives, Selectives	14
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
<b>TOTAL CREDITS</b>		<b>28</b>

<b>Part B: Requirements for MPH degree in Global Environmental Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6121	Environmental and Occupational Epidemiology	3
PUBH 6126	Assessment and Control of Environmental Hazards	3
PUBH 6128	Global Environmental and Occupational Health	2
PUBH 6131	Quantitative Methods in Environmental and Occupational Health	3
PUBH 6400	Global Health Frameworks	2
PUBH 6411	Global Health Qualitative Research Methods	2
PUBH 6435	Global Health Program Development and Implementation	2
	Electives	9
<i>Integrative Learning Experience</i>		
PUBH 6137	EOH Culminating Experience 1	1
PUBH 6138	EOH Culminating Experience 2	1
<b>TOTAL CREDITS</b>		<b>28</b>

<b>Part B: Requirements for MPH degree in Global Health Epidemiology and Disease Control</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6400	Global Health Frameworks	2
PUBH 6247	Epidemiologic Methods 1: Design of Health Studies	3
PUBH 6252	Epidemiologic Methods 2: Advanced Epidemiologic Methods	3
PUBH 6853	Use of SAS for Data Management and Analysis	3
PUBH 6416 Or PUBH 6423	Ethical and Cultural Issues in Global Health Research and Programs Or Ethics in Public Health Practice and Policy	1
PUBH 6047	Systematic Reviews to Synthesize Evidence in Public Health Practice	1
PUBH 6486	Global Health Programs and Approaches to the Control of Infectious Diseases	2
PUBH 6492	Global Health Programs and Approaches to the Control of Chronic Diseases	2

	Electives	9
<i>Integrative Learning Experience</i>		
PUBH 6418	GH Culminating Experience 1	1
PUBH 6419	GH Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in Global Health Program Design, Monitoring and Evaluation</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6400	Global Health Frameworks	2
PUBH 6410	Global Health Study Design	1
PUBH 6412	Global Health Quantitative Research Methods	3
PUBH 6416 Or PUBH 6423	Ethical and Cultural Issues in Global Health Research and Programs Or Ethics in Public Health Practice and Policy	1
PUBH 6435	Global Health Program Development and Implementation	2
PUBH 6047	Systematic Reviews to Synthesize Evidence in Public Health Practice	1
	Electives, Selectives	15
<i>Integrative Learning Experience</i>		
PUBH 6418	GH Culminating Experience 1	1
PUBH 6419	GH Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>27</b>

<b>Part B: Requirements for MPH degree in Global Health Policy</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6400	Global Health Frameworks	2
PUBH 6447	Global Health Policy Analysis	2
PUBH 6412	Global Health Quantitative Research Methods	3
PUBH 6416 Or PUBH 6423	Ethical and Cultural Issues in Global Health Research and Programs Or Ethics in Public Health Practice and Policy	1
PUBH 6417	Cross-Cultural Approaches for Global Health Practice	1
PUBH 6450	Global Health Diplomacy	2
PUBH 6441	Global Health Organizations and Regulations	3
PUBH 6047	Systematic Reviews to Synthesize Evidence in Public Health Practice	1
PUBH 6045	National and Global Public Health Systems	1
PUBH 6442 Or PUBH 6355	Comparative Global Health Systems Or Comparative Health Policy	2
PUBH 6440 Or PUBH 6399	Global Health Economics Or Topics in Health Policy (Cost-Benefit Analysis in Health care)	2

Or PUBH 6466	Or Health Financing in Low- and Middle-Income Countries	
	Electives	6
<i>Integrative Learning Experience</i>		
PUBH 6418	GH Culminating Experience 1	1
PUBH 6419	GH Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in Health Policy</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6310	Statistical Analysis in Health Policy	3
PUBH 6315	Introduction to Health Policy Analysis	2
PUBH 6320	Advanced Health Policy Analysis	3
PUBH 6325	Federal Policymaking and Policy Advocacy	2
PUBH 6330 Or PUBH 6335	Health Services and Law Or Public Health and Law	3
PUBH 6340	Health Economics and Finance	3
	Electives, Selectives	10
<i>Integrative Learning Experience</i>		
PUBH 6350	Health Policy Capstone	2
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in Health Promotion</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
PUBH 6504	Social and Behavioral Science Research Methods	3
PUBH 6530	Qualitative Methods in Health Promotion	2
	Electives	14
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
	<b>TOTAL CREDITS</b>	<b>27</b>

<b>Part B: Requirements for MPH degree in Humanitarian Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6480	Public Health in Humanitarian Settings	2
PUBH 6467	Ethics and Accountability in Humanitarian Assistance	3

PUBH 6468	Preparation and Response to Epidemics, Pandemics, Mass Health Emergencies and Disasters	2
PUBH 6462	Nutrition and Food in Large Humanitarian Emergencies	1
PUBH 6400	Global Health Frameworks	2
PUBH 6410	Global Health Study Design	1
PUBH 6412	Global Health Quantitative Research Methods	3
PUBH 6416 Or PUBH 6423	Ethical and Cultural Issues in Global Health Research and Programs Or Ethics in Public Health Practice and Policy	1
	Electives, Selectives	11
<i>Integrative Learning Experience</i>		
PUBH 6418	GH Culminating Experience 1	1
PUBH 6419	GH Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in Maternal and Child Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6550	Maternal and Child Health 1	3
PUBH 6551	Maternal and Child Health 2	3
	Electives, Selectives	16
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
	<b>TOTAL CREDITS</b>	<b>27</b>

<b>Part B: Requirements for MPH degree in Physical Activity in Public Health<sup>45</sup></b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
EXNS 6202	Advanced Exercise Physiology 1	3
EXNS 6203	Advanced Exercise Physiology 2	3
EXNS 6204	Biostatistical Methods and Research Design	3
EXNS 6208	Physical Activity in Public Health	2
PUBH 6247	Epidemiology Methods 1: Design of Health Studies	3
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6620	Designing Healthy Communities	2

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<sup>45</sup> The MPH in Physical Activity in Public Health unofficially transitioned to this curriculum during 2023-2024. There were very few matriculants in this academic year and the curricular changes were related to their electives, taken during Year 2 (which is when the curriculum becomes official). The program will officially transition to this curriculum in 2024-2025. See ERF for details on the previous curriculum.

	Electives, Tailoring courses in Epidemiology, Program Design and Monitoring	7
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in Public Health Communication and Marketing</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
PUBH 6570	Advanced Public Health Communication: Theory and Practice	3
PUBH 6571	Social Marketing: Theory and Practice	3
PUBH 6504	Social and Behavioral Science Research Methods	3
	Electives	10
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
	<b>TOTAL CREDITS</b>	<b>27</b>

<b>Part B: Requirements for MPH degree in Public Health Nutrition</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
EXNS 6242	Nutrition Throughout the Life Cycle	2
PUBH 6611	Nutrition Assessment	2
PUBH 6612	Food Systems in Public Health	2
PUBH 6613 Or PUBH 6482	US Food Policy and Politics Or International Food and Nutrition Policy	2
PUBH 6620	Designing Healthy Communities	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6614	Study Design and Analysis in Nutritional Epidemiology	2
EXNS 6204	Biostatistical Methods and Research Design	3
	Electives, Research Methods Selective	8
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in MPH@GW, Public Health Generalist</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2

PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
	Electives	16
<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in MPH@GW, Global Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
PUBH 6400	Global Health Frameworks	2
PUBH 6486	Global Health Programs and Approaches to the Control of Infectious Diseases	2
PUBH 6563	Global Child Health	2
PUBH 6128	Global Environmental and Occupational Health	2
PUBH 6480	Public Health in Humanitarian Settings	2
	Electives	6
<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in MPH@GW, Health Informatics and Analytics</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
PUBH 6704	Health Information Technology, Informatics and Decision Making	3
PUBH 6706	Population and Community Health Analytics	3
PUBH 6703	Healthcare Delivery and Health IT	2
PUBH 6705	Health Law and Health IT	3
	Electives	5



<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in MPH@GW, Climate and Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6133	Social Dimensions in Climate Change and Health	3
PUBH 6136	Environmental and Occupational Epidemiology	3
PUBH 6128	Global Environmental and Occupational Health	2
PUBH 6135	Researching Climate Change and Human Health	3
PUBH 6140	Global Climate Change and Air Pollution	2
PUBH 6130	Sustainable Energy and the Environment	2
	Electives	4
<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

<b>Part B: Requirements for MPH degree in MPH@GW, Women, Youth and Child Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
PUBH 6550	Maternal and Child Health 1	3
PUBH 6552	Women's Health	2
PUBH 6563	Global Child Health	2
PUBH 6451	Monitoring/Evaluation of Sexual/Reproductive Health Programs in Low- and Middle-Income Countries	2
	Electives, Selectives	7
<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
	<b>TOTAL CREDITS</b>	<b>28</b>

- 2) *List the required curriculum for each combined degree option in the same format as above, clearly indicating (using italics or shading) any requirements that differ from MPH students who are not completing a combined degree.*

Part A of Template D2-1 is the same as the template found for all other, non-joint degree MPH students.

Template D2-1

<b>Part A: Requirements for all MPH joint degrees (except MD/MPH, JD/MPH, LLM/MPH and MSN/MPH)</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Foundational Courses</i>		
PUBH 6002	Biostatistical Applications for Public Health	3
PUBH 6003	Principles and Practices of Epidemiology	3
PUBH 6007	Social and Behavioral Approaches to Public Health	2
PUBH 6009 Or PUBH 6501	Fundamentals of Public Health Program Evaluation Or Program Evaluation	2 Or 3
PUBH 6011	Environmental and Biological Foundations of Public Health	3
PUBH 6012	Fundamentals of Health Policy	2
PUBH 6021	Essentials of Public Health Practice and Leadership 1	1
PUBH 6022	Essentials of Public Health Practice and Leadership 2	1
PUBH 6023	Interprofessional Education Experience	0
<i>Applied Practice Experience</i>		
PUBH 6000	MPH Applied Practice Experience	0
<b>TOTAL FOUNDATIONAL CREDITS</b>		<b>17-18</b>

PA/MPH students in the Community-Oriented Primary Care program complete the same program requirements as non-joint degree students with three exceptions: (1) they are required to enroll in PUBH 6591; (2) they take fewer electives in the MPH program; and (3) they replace PUBH 6514 Preventing Health Disparities (2 credits) with the transferred PA 6113 Clinical Medicine 2 (2 credits).

<b>Part B: Requirements for PA/MPH degree in Community-Oriented Primary Care</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6504	Social and Behavioral Science Research Methods	3
PUBH 6510	Community-Oriented Primary Care Principles and Practice	3
PUBH 6512	Community-Oriented Primary Care Policy and Issues	2
PUBH 6513	Community Health Management	2
	Electives	4
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2

<i>Transferred Courses</i> <sup>46</sup>		
PA 6113	Clinical Medicine 2 (in place of PUBH 6514)	2
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> </ul>	3
	<b>TOTAL CREDITS</b>	<b>27</b>

PA/MPH students in the Environmental Health Science and Policy program complete the same program requirements as non-joint degree students with three exceptions: (1) they are required to enroll in PUBH 6591; (2) they take no electives in the MPH program; and (3) they replace PUBH 6131 Quantitative Methods in Environmental and Occupational Health (3 credits) with PUBH 6853 Use of SAS for Data Management and Analysis (3 credits).

<b>Part B: Requirements for PA/MPH degree in Environmental Health Science and Policy</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6121	Environmental and Occupational Epidemiology	3
PUBH 6122	Protecting Public Health and the Environment: Policies, Politics and Programs	3
PUBH 6123	Toxicology: Applications for Public Health Policy	3
PUBH 6124	Risk Management and Communication	3
PUBH 6126	Assessment and Control of Environmental Hazards	3
PUBH 6853	Use of SAS for Data Management and Analysis	3
<i>Integrative Learning Experience</i>		
PUBH 6137	EOH Culminating Experience 1	1
PUBH 6138	EOH Culminating Experience 2	1
<i>Transferred Courses</i>		
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> </ul>	5

<sup>46</sup> PA/MPH students transfer 5–7 credits (depending on MPH program) from the PA program towards their MPH degree. These credits are from a compilation of coursework. All course syllabi have been reviewed for public health content by the PA/MPH director. In some instances, only partial credits from a course are transferred to reflect just the public health content. For example, PA 6112 and PA 6113 cover public health topics such as epidemiology, risk factors, prevention, health disparities and patient education. After careful review by the PA/MPH director, the contact hours spent studying these topics were calculated to be worth at least 4 credits. In some cases, the number of eligible credits exceeds what is needed. In these instances, only the required number of credits are transferred. In total, PA/MPH students complete a minimum of 45 credits of public health coursework. A similar process is used across all joint degrees.

	<ul style="list-style-type: none"> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> <li>• PA 6113 Clinical Medicine 2</li> </ul>	
	<b>TOTAL CREDITS</b>	<b>28</b>

PA/MPH students in the Epidemiology program complete the same program requirements as non-joint degree students with two exceptions: (1) they are required to enroll in PUBH 6591; and (2) they take fewer electives and selectives in the MPH program.

<b>Part B: Requirements for PA/MPH degree in Epidemiology</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6247	Epidemiologic Methods 1: Design of Health Studies	3
PUBH 6853	Use of SAS for Data Management and Analysis	3
PUBH 6252	Epidemiologic Methods 2: Advanced Epidemiologic Methods	3
PUBH 6260	Applied Epidemiologic Data Analysis	3
	Electives, Selectives	6
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
<i>Transferred Courses</i>		
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> <li>• PA 6113 Clinical Medicine 2</li> </ul>	5
	<b>TOTAL CREDITS</b>	<b>28</b>

PA/MPH students in the Global Environmental Health program complete the same program requirements as non-joint degree students with three exceptions: (1) they are required to enroll in PUBH 6591; (2) they take fewer electives in the MPH program; and (3) they replace PUBH 6131 Quantitative Methods in Environmental and Occupational Health (3 credits) with PUBH 6853 Use of SAS for Data Management and Analysis (3 credits).

<b>Part B: Requirements for PA/MPH degree in Global Environmental Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6121	Environmental and Occupational Epidemiology	3
PUBH 6126	Assessment and Control of Environmental Hazards	3
PUBH 6128	Global Environmental and Occupational Health	2
PUBH 6400	Global Health Frameworks	2

PUBH 6411	Global Health Qualitative Research Methods	2
PUBH 6435	Global Health Program Development and Implementation	2
PUBH 6853	Use of SAS for Data Management and Analysis	3
	Electives	1
<i>Integrative Learning Experience</i>		
PUBH 6137	EOH Culminating Experience 1	1
PUBH 6138	EOH Culminating Experience 2	1
<i>Transferred Courses</i>		
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> <li>• PA 6113 Clinical Medicine 2</li> </ul>	5
<b>TOTAL CREDITS</b>		<b>28</b>

PA/MPH students in the Health Policy program complete the same program requirements as non-joint degree students with two exceptions: (1) they are required to enroll in PUBH 6591; and (2) they take fewer electives and selectives in the MPH program.

<b>Part B: Requirements for PA/MPH degree in Health Policy</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6310	Statistical Analysis in Health Policy	3
PUBH 6315	Introduction to Health Policy Analysis	2
PUBH 6320	Advanced Health Policy Analysis	3
PUBH 6325	Federal Policymaking and Policy Advocacy	2
PUBH 6330 Or PUBH 6335	Health Services and Law Or Public Health and Law	3
PUBH 6340	Health Economics and Finance	3
	Electives, Selectives	2
<i>Integrative Learning Experience</i>		
PUBH 6350	Health Policy Capstone	2
<i>Transferred Courses</i>		
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> <li>• PA 6113 Clinical Medicine 2</li> </ul>	5
<b>TOTAL CREDITS</b>		<b>28</b>

PA/MPH students in the Maternal and Child Health program complete the same program requirements as non-joint degree students with two exceptions: (1) they are required to enroll in PUBH 6591; and (2) they take fewer electives and selectives in the MPH program.

<b>Part B: Requirements for PA/MPH degree in Maternal and Child Health</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Concentration Courses</i>		
PUBH 6591	PA/MPH Clinical Leadership Seminar	1
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6550	Maternal and Child Health 1	3
PUBH 6551	Maternal and Child Health 2	3
	Electives, Selectives	8
<i>Integrative Learning Experience</i>		
PUBH 6015	Culminating Experience	2
<i>Transferred Courses</i>		
PUBH 6242	Clinical Epidemiology and Public Health: Reading the Research (this is a required PA course; not required by any MPH program)	2
	Electives <ul style="list-style-type: none"> <li>• PA 6119 Health, Justice and Society 2</li> <li>• PA 6122 Role of the Physician Assistant in US Healthcare</li> <li>• PA 6112 Clinical Medicine 1</li> <li>• PA 6113 Clinical Medicine 2</li> </ul>	5
<b>TOTAL CREDITS</b>		<b>27</b>

The MD/MPH@GW program differs from the non-joint MPH@GW, Public Health Generalist program in that MD/MPH students are not required to complete the following courses:

- PUBH 6011 Environmental and Biological Foundations of Public Health (3 credits)
- PUBH 6012 Fundamentals of Health Policy (2 credits)
- PUBH 6021 Essentials of Public Health Practice and Leadership 1 (1 credit)
- PUBH 6023 Interprofessional Education Experience (0 credits)
- PUBH 6060 MPH@GW Culminating Experience 1 (1 credit)
- PUBH 6061 MPH@GW Culminating Experience 2 (1 credit).

Additionally, they take fewer electives than students in the non-joint MPH@GW, Public Health Generalist program.

<b>Requirements for MD/MPH degree in MPH@GW, Public Health Generalist</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Foundational Courses</i>		
PUBH 6002	Biostatistical Applications for Public Health	3
PUBH 6003	Principles and Practices of Epidemiology	3
PUBH 6007	Social and Behavioral Approaches to Public Health	2
PUBH 6009	Fundamentals of Public Health Program Evaluation	2
PUBH 6022	Essentials of Public Health Practice and Leadership 2	1
<i>Applied Practice Experience</i>		

PUBH 6000	MPH Applied Practice Experience	0
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
	Electives	9
<i>Transferred Courses</i>		
	Transferred courses <sup>47</sup> <ul style="list-style-type: none"> <li>• IDIS 8311 Fundamentals of Patients, Populations and Systems</li> <li>• IDIS 8312 Patients in Health Systems</li> <li>• IDIS 8211 Practice of Medicine 1</li> <li>• IDIS 8212 Practice of Medicine 2</li> <li>• IDIS 8101 Foundations of Medicine</li> <li>• IDIS 8102 Infection, Inflammation and Immunohematology</li> <li>• Population Health Summit #4<sup>48</sup></li> </ul>	15
<b>TOTAL CREDITS</b>		<b>45</b>

MSN/MPH students transfer 12 nursing school credits as electives to the MPH@GW program. They complete all other program requirements.

<b>Requirements for MSN in Nursing Leadership and Management/MPH degree in MPH@GW, Public Health Generalist</b>		
<b>Course number</b>	<b>Course name</b>	<b>Credits</b>
<i>Foundational Courses</i>		
PUBH 6002	Biostatistical Applications for Public Health	3
PUBH 6003	Principles and Practices of Epidemiology	3
PUBH 6007	Social and Behavioral Approaches to Public Health	2
PUBH 6009	Fundamentals of Public Health Program Evaluation	2
PUBH 6011	Environmental and Biological Foundations of Public Health	3
PUBH 6012	Fundamentals of Health Policy	2
PUBH 6021	Essentials of Public Health Practice and Leadership 1	1
PUBH 6022	Essentials of Public Health Practice and Leadership 2	1
PUBH 6023	Interprofessional Education Experience	0
<i>Applied Practice Experience</i>		

<sup>47</sup> All course syllabi have been reviewed for public health content by the MD/MPH and MPH@GW program directors. In some instances, only partial credits from a course are transferred to reflect just the public health content. See ERF > Criterion D > Criterion D2 > Joint Degrees for more details on how MD courses were mapped to public health content.

<sup>48</sup> The Population Health Summit #4 (found in IDIS 8334 Intersession IV) is not transferred for credit, but the experience is the basis for the applied practice experience, integrative learning experience and interprofessional experience.

PUBH 6000	MPH Applied Practice Experience	0
<i>Concentration Courses</i>		
PUBH 6052	Practical Data Management and Analysis for Public Health	2
PUBH 6442	Comparative Global Health Systems	2
PUBH 6500	Planning and Implementing Health Promotion Programs	3
PUBH 6503	Introduction to Public Health Communication and Marketing	3
	Electives	4
<i>Integrative Learning Experience</i>		
PUBH 6060	MPH@GW Culminating Experience 1	1
PUBH 6061	MPH@GW Culminating Experience 2	1
<i>Transferred Courses</i>		
	Transferred courses <sup>49</sup> <ul style="list-style-type: none"> <li>• NURS 6241 The Health Care Enterprise</li> <li>• NURS 6274 Health Economics and Finance</li> <li>• NURS 8402 Knowledge Management in Health care</li> <li>• NURS 6264 Advancing Health care Quality and Patient Safety</li> </ul>	12
<b>TOTAL CREDITS</b>		<b>45</b>

### **Requirements for the JD/MPH in any residential concentration and LLM/MPH in any residential concentration**

Students earning a JD/MPH and LLM/MPH may enroll in any residential MPH concentration. Students are required to enroll in all foundational, applied practice experience and culminating experience courses in the MPH program, appropriate to the concentration. Students can transfer 8 credits from law school (LAW 6410 Health Law and Policy and LAW 6411 Health Care Law Seminar)<sup>50</sup> as program-specific or elective courses depending on their MPH program. The program director decides how the courses are transferred after reviewing the syllabi of the transferred courses. The credits are transferred from the law school toward the MPH at the end of the program.

### **Requirements for the BS in Public Health/MPH degree in any concentration (except Humanitarian Health)<sup>51</sup>**

Students who enroll in the joint BS/MPH program complete 153 credits in total. Twelve credits of graduate coursework apply toward both the BS and MPH degrees. As a result, degree requirements for both programs are met. Crossover credits include:

- PUBH 6002 Biostatistical Applications for Public Health (3 credits)
- PUBH 6003 Principles and Practices of Epidemiology (3 credits)
- PUBH 6007 Social and Behavioral Approaches to Public Health (2 credits)

<sup>49</sup> All course syllabi have been reviewed for public health content by the MSN/MPH program director.

<sup>50</sup> LAW 6411 is a seminar class that changes topic depending on the instructor. Each syllabus is carefully reviewed by the JD/LLM/MPH program director before accepted for transfer credits.

<sup>51</sup> Applicants to the MPH in Humanitarian Health are expected to have work experience after completing their undergraduate education. Ideal candidates are physicians, current or former Peace Corps volunteers or similarly experienced applicants. BS in Public Health/MPH students generally don't fulfill these requirements.



- PUBH 6011 Environmental and Biological Foundations of Public Health (3 credits)
- PUBH 6021 Essentials of Public Health Practice and Leadership 1 (1 credit)

**Requirements for the BS in Nutrition/MPH degree in any concentration (except Public Health Nutrition)**

Students who enroll in the joint BS/MPH program complete 153 credits in total. Twelve credits of graduate coursework apply toward both the BS and MPH degrees. As a result, degree requirements for both programs are met. Crossover credits include:

- PUBH 6002 Biostatistical Applications for Public Health (3 credits)
- PUBH 6003 Principles and Practices of Epidemiology (3 credits)
- PUBH 6007 Social and Behavioral Approaches to Public Health (2 credits)
- PUBH 6011 Environmental and Biological Foundations of Public Health (3 credits)
- PUBH 6021 Essentials of Public Health Practice and Leadership 1 (1 credit)

**Requirements for the BS in Nutrition/MPH degree in Public Health Nutrition**

Students who enroll in the joint BS/MPH program complete 154 credits in total. Eleven credits of graduate coursework apply toward both the BS and MPH degrees. As a result, degree requirements for both programs are met. Crossover credits include:

- PUBH 6002 Biostatistical Applications for Public Health (3 credits)
- PUBH 6003 Principles and Practices of Epidemiology (3 credits)
- PUBH 6007 Social and Behavioral Approaches to Public Health (2 credits)
- PUBH 6021 Essentials of Public Health Practice and Leadership 1 (1 credit)
- PUBH 6611 Nutrition Assessment (2 credits)

**Requirements for any non-GWSPH Bachelor's/MPH degree in Environmental Health Science and Policy or Global Environmental Health**

Students who enroll in the joint BS or BA/MPH program complete 153 credits in total. Twelve credits of graduate coursework apply toward both the BS and MPH degrees. As a result, degree requirements for both programs are met. Crossover credits include:

- PUBH 6002 Biostatistical Applications for Public Health (3 credits)
- PUBH 6003 Principles and Practices of Epidemiology (3 credits)
- PUBH 6007 Social and Behavioral Approaches to Public Health (2 credits)
- PUBH 6011 Environmental and Biological Foundations of Public Health (3 credits)
- PUBH 6021 Essentials of Public Health Practice and Leadership 1 (1 credit)

- 3) *Provide a matrix, in the format of Template D2-2, that indicates the assessment activity for each of the foundational competencies. If the school addresses all of the listed foundational competencies in a single, common core curriculum, the school need only present a single matrix. If combined degree students do not complete the same core curriculum as students in the standalone MPH school, the school must present a separate matrix for each combined degree. If the school relies on concentration-specific courses to assess some of the foundational competencies listed above, the school must present a separate matrix for each concentration.*

Template D2-2

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
1	Apply epidemiological methods to the breadth of settings and situations in public health practice.	PUBH 6003 Principles and Practices of Epidemiology	PUBH 6003–Homework assignments require students to apply epidemiological methods to a variety of public health scenarios. See Homework 1 (rates and measures), Homework 2 (cohort and case control studies), Homework 3 (outbreak investigations) and Homework 4 (Confounding, interaction, and bias) in ERF.
2	Select quantitative and qualitative data collection methods appropriate for a given public health context.	PUBH 6003 Principles and Practices of Epidemiology (Quant)  PUBH 6009 Fundamentals of Public Health Program Evaluation (Qual) Or PUBH 6501 Program Evaluation (Qual) <sup>52</sup>	PUBH 6003–Students answer questions regarding quantitative data sources on a series of activities. Students participate in a case study which requires students to discuss quantitative data collection. They also have homework questions related to selection bias and other data collection challenges. See ERF.  PUBH 6009–In Quiz 5, students answer questions about qualitative research methods for program evaluation, including data collection and analysis techniques. See ERF. Or PUBH 6501–Students learn about qualitative data collection methods in Week 11. They complete an in-class assignment where they identify qualitative data that they will collect for their program evaluation (final project). In Lab 4, students develop a detailed summative evaluation plan which includes qualitative data collection. See ERF.

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<sup>52</sup> All MPH students take PUBH 6009 except COPC; Global Health Program Design, Monitoring and Evaluation; Health Promotion; Maternal and Child Health; and Public Health Communication and Marketing; MPH students in Physical Activity in Public Health may choose 6009 or 6501. MPH students who don't take PUBH 6009 instead take PUBH 6501.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
3	Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate.	<p>PUBH 6002 Biostatistical Applications for Public Health (Quant) Or PUBH 6853 Use of SAS for Data Management and Analysis (Quant)<sup>53</sup></p> <p>PUBH 6009 Fundamentals of Public Health Program Evaluation (Qual) Or PUBH 6501 Program Evaluation (Qual)<sup>54</sup></p>	<p>PUBH 6002—Students complete a lab exercise that requires them to use software (Excel in this case, though students are welcome to use another software if they prefer). See ERF. Or PUBH 6853—Students complete a series of five homework assignments where they use SAS to analyze quantitative data, specifically a dataset from NHANES. See ERF.</p> <p>PUBH 6009—Students practice analyzing qualitative data through an interactive transcript coding activity. This activity is done in class/during a synchronous session with the instructor meeting with each team and assessing students individually. See ERF. Or PUBH 6501—In the Qualitative Activity Interview Guide Themes, students develop themes/codes using Word. This activity is done in class/during a synchronous session with the instructor meeting with each team and assessing students individually. See ERF.</p>

<sup>53</sup> All MPH students take PUBH 6002 except Biostatistics. Students in the Biostatistics program take PUBH 6853 instead.

<sup>54</sup> All MPH students take PUBH 6009 except COPC; Global Health Program Design, Monitoring and Evaluation; Health Promotion; Maternal and Child Health; and Public Health Communication and Marketing; MPH students in Physical Activity in Public Health may choose 6009 or 6501. MPH students who don't take PUBH 6009 instead take PUBH 6501.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
4	Interpret results of data analysis for public health research, policy or practice.	<p>PUBH 6002 Biostatistical Applications for Public Health Or PUBH 6853 Use of SAS for Data Management and Analysis<sup>55</sup></p> <p>PUBH 6003 Principles and Practices of Epidemiology</p>	<p>PUBH 6002—Students take several quizzes and a final exam, which focus on student ability to understand and interpret results of data analysis from descriptive statistics to multivariable models. Students also participate in labs and in-class discussions on real-world scenarios and how data analysis is applied. See ERF.</p> <p>Or PUBH 6853—On their homework assignments, students interpret the SAS outputs. See ERF.</p> <p>PUBH 6003—Students calculate and interpret rates and measures of association from epidemiologic studies on several homework assignments. See Homework 1 (rates and measures), Homework 3 (outbreak investigations) and Homework 4 (Confounding, interaction, and bias) in ERF.</p>
5	Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings.	<p>PUBH 6012 Fundamentals of Health Policy Or IDIS 8311 Fundamentals of Patients, Populations and Systems<sup>56</sup></p>	<p>PUBH 6012—Students take three exams during the course that assess this competency. Students also have discussions regarding the organization, structure and function of health systems in class. See ERF.</p> <p>Or IDIS 8311—Students take a midterm and final exam with written cases that assess this competency. Example questions are: (1) Compare and contrast the organization and payment structures of the US health care and public health systems with two health systems in democratic, capitalist countries; (2) Discuss the regulatory role at the local, state, and federal levels in promoting public health policies to reduce the prevalence of chronic diseases and their risk factors.</p>

<sup>55</sup> All MPH students take PUBH 6002 except Biostatistics. Students in the Biostatistics program take PUBH 6853 instead.

<sup>56</sup> All MPH students take PUBH 6012 except MD/MPH students who take IDIS 8311.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
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.	PUBH 6007 Social and Behavioral Approaches to Public Health	PUBH 6007–In the Final Paper, students answer a series of questions regarding their choice of an at-risk target population. This section addresses questions such as: “What are the health equity and/or social inequity issues at play here?,” “What are the roots of the social/behavioral issue?” and “How are cultural values considered in the problem and/or potential solutions?” Students then design an intervention using a theoretical model for the target population, taking into consideration their answers to the previous questions (p. 6).
7	Assess population needs, assets, and capacities that affect communities' health.	PUBH 6007 Social and Behavioral Approaches to Public Health	PUBH 6007–In the Theory Selection assignment, students complete the Theory Selection Matrix in Excel, which is used to assess population health needs, assets and capacities that affect a community's health. This matrix is used to develop the target population needs assessment, which is part of the Final Paper (pp. 4, 6).
8	Apply awareness of cultural values and practices to the design or implementation of public health policies or programs.	PUBH 6007 Social and Behavioral Approaches to Public Health	PUBH 6007–In the Final Paper, students answer a series of questions regarding their choice of an at-risk target population. In particular, students address how cultural values and practices are considered in the public health problem and/or potential solution. Students then design an intervention using a theoretical model for the target population, taking into consideration their answers to the previous question (p. 6).
9	Design a population-based policy, program, project or intervention.	PUBH 6007 Social and Behavioral Approaches to Public Health	PUBH 6007–In the Final Paper, students design an intervention using a theoretical model for an at-risk population (p. 6).
10	Explain basic principles and tools of budget and resource management.	PUBH 6022 Essentials of Public Health Practice and Leadership 2	PUBH 6022–As part of the Organizational Design Project, groups of students develop a fictional organization's strategic plan, organizational budget and organizational chart. Each student must contribute to the video presentation of this material. Following the video, students complete individual self- and peer-assessments answering questions about the principles and tools of budget and resource management: Discuss one line-item of your organization’s budget to which you specifically contributed. Explain what it is, to which budget category it belongs, why it is justified, how you arrived at its estimated cost, who in your organization will oversee it, and when it will be expended (p. 4). Additionally, there are several discussions centered around budgeting principles and resource management. See ERF.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
11	Select methods to evaluate public health programs.	PUBH 6009 Fundamentals of Public Health Program Evaluation Or PUBH 6501 Program Evaluation <sup>57</sup>	PUBH 6009–In the Group Project, groups of students select quantitative and qualitative methods to evaluate a public health intervention. The data driven evaluation plan includes selection of indicators, selection of measurement methods (both qualitative and quantitative), and selection of study design. The project is divided into three parts and for each part, students must submit both a self and peer evaluation, which is taken into account when students are assessed individually. Or PUBH 6501–In the Evaluation plan, students select quantitative and qualitative methods to evaluate a public health program (p. 5).
12	Discuss multiple dimensions of the policy making process, including the roles of ethics and evidence.	PUBH 6012 Fundamentals of Health Policy Or IDIS 8311 Fundamentals of Patients, Populations and Systems <sup>58</sup>	PUBH 6012–In the Policy Evaluation Memo, students identify a public health challenge and a decision-maker who can address this challenge through policy change. Acting as health policy analysts, students write a memo evaluating policy actions that the decision-maker can take. To complete this assignment, students must have a thorough understanding of the policy-making process to identify the appropriate decision-maker and potential policy actions. In the second exam, students are assessed on this competency through questions such as the following exam essay question: Describe the role of regulatory agencies in making health policy. Or IDIS 8311–In the midterm and final exams, students answer questions that assess this competency. Example questions include: (1) Discuss the steps in the policymaking process using the example of tobacco control among adolescents; (2) Develop an evidence-based, culturally appropriate policy to increase HIV screening in an assigned at-risk population and jurisdiction.

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<sup>57</sup> All MPH students take PUBH 6009 except COPC; Global Health Program Design, Monitoring and Evaluation; Health Promotion; Maternal and Child Health; and Public Health Communication and Marketing; MPH students in Physical Activity in Public Health may choose 6009 or 6501). MPH students who don't take PUBH 6009 take PUBH 6501 instead.

<sup>58</sup> All MPH students take PUBH 6012 except MD/MPH students, who take IDIS 8311.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
13	Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.	PUBH 6022 Essentials of Public Health Practice and Leadership 2	PUBH 6022–In the Advocacy for Advancing Health Equity Mini-Presentations, students choose one health equity issue and two advocacy actions to address this issue. As part of their oral presentation (no PowerPoint), students describe strategies to engage key stakeholders in their advocacy work (p. 5).
14	Advocate for political, social or economic policies and programs that will improve health in diverse populations.	PUBH 6022 Essentials of Public Health Practice and Leadership 2	PUBH 6022–In the Advocacy for Advancing Health Equity Mini-Presentations, students choose one health equity issue and advocate for two actions to address the issue (p. 5)
15	Evaluate policies for their impact on public health and health equity.	PUBH 6012 Fundamentals of Health Policy Or IDIS 8311 Fundamentals of Patients, Populations and Systems And IDIS 8312 Patients in Health Systems <sup>59</sup>	PUBH 6012–In the Policy Evaluation Memo, students identify a public health challenge and, acting as a health policy analyst, write a memo evaluating three policy options for their impact on public health. See ERF. Or IDIS 8311–In the midterm and final exams, students answer questions that assess this competency. Example questions include: (1) Discuss the impact of a "non-health sector" policy on public health for a defined population; (2) Identify health indicators to detect health disparities in disease burden under the assigned policy. And IDIS 8312–In the midterm exam, students answer questions that assess this competency. Examples include: (1) Discuss 4 ACA provisions that increase access to care; (2) Design a policy to reduce the prevalence of childhood asthma among vulnerable populations in Washington, DC.

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<sup>59</sup> All MPH students take PUBH 6012 except MD/MPH students who take IDIS 8311 and IDIS 8312.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
16	Apply leadership and/or management principles to address a relevant issue.	PUBH 6022 Essentials of Public Health Practice and Leadership 2	PUBH 6022—As part of the Organizational Design Project, groups of students develop a fictional organization's strategic plan, organizational budget and organizational chart. Each student must contribute to the video presentation of this material. Following the video, students write an individual reflection piece (Journal) applying principles of leadership, governance and management. A sample question for the reflection is: Which of the four decision-making procedures did you and your teammates use when determining your organization's vision, mission, values, goals, strategies, governing structures, budget, and org chart? If you were to redo the organizational design challenge assignment, what would you change about how you and your teammates made decisions? (p. 4).
17	Apply negotiation and mediation skills to address organizational or community challenges.	PUBH 6021 Essentials of Public Health Practice and Leadership 1 Or IDIS 8334 Intersession IV <sup>60</sup>	PUBH 6021—In the Public Health Challenge group assignment, groups of students explore and address a public health challenge at an assigned level of systems, organizational or community. Teams are evaluated on utilizing at least 3 negotiation and/or mediation conflict-resolution techniques. Each team presents a reflection on what made them effective in influencing the potential funders during their negotiation presentations. Teams outline adaptations they will incorporate into their next round of funding/capital acquisition negotiations. Subsequently, students will be required to submit independent written reflections for assessment. Sample questions include: (1) Name one negotiation technique you successfully contributed to your team's public health challenge presentation; (2) If you were to redo the public health challenge presentation, what would you change about how you negotiated with potential funders? (pp. 5, 12). Or IDIS 8334—Based on their work in the Population Health Summit, students write a paper (MD/MPH Leadership Assignment) identifying organizational- or community-level challenges associated with their specific public health issue. They then must describe two negotiation and mediation skills they would employ to address these issues. See ERF.

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<sup>60</sup> All MPH students take PUBH 6012 except MD/MPH students who take IDIS 8334. This is the current assignment, effective spring 2024. Prior assignment listed in ERF.



#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
18	Select communication strategies for different audiences and sectors.	PUBH 6007 Social and Behavioral Approaches to Public Health  PUBH 6022 Essentials of Public Health Practice and Leadership 2	PUBH 6007–In the Final Paper, students develop communication strategies to engage their target audience in their public health program (p. 6, see ERF).  PUBH 6022–In Week 3, students learn about communication strategies. They apply their skills in the Organizational Design Project by integrating strategic communications and organizational change management (p. 4, see ERF).

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
19	Communicate audience-appropriate (i.e., nonacademic, non-peer audience) public health content, both in writing and through oral presentation.	<p>PUBH 6022 Essentials of Public Health Practice and Leadership 2</p> <p>PUBH 6012 Fundamentals of Health Policy</p> <p>Or</p> <p>IDIS 8311 Fundamentals of Patients, Populations and Systems</p> <p>And</p> <p>IDIS 8212 Practice of Medicine 2<sup>61</sup></p>	<p>PUBH 6022–In the Organizational Design Project, groups create a fictional organizational design plan and present it via video. Part of the organizational design plan is creating missions, values and goals that communicate public health ideals to the public. All members are expected to participate in the presentation and complete peer evaluations which contribute to instructor's individual assessment. Additionally, each student identifies one health disparity and develops two advocacy actions to address this issue. Students are expected to target a lay audience stakeholder in their advocacy actions. Students must communicate in a presentation (sans PowerPoint) these two advocacy actions and why they communicated public health information in such a way (pp. 4–5).</p> <p>PUBH 6012–In the Policy Evaluation Memo, students act as health policy analysts and write a memo evaluating policy actions that a decision-maker can take regarding a specific public health challenge. The memo is geared specifically to that policy, nonacademic decision-maker, and the language used should reflect this. See ERF.</p> <p>Or</p> <p>IDIS 8311–In the HIV Summit Activity (end of course), groups of students communicate about a public health challenge associated with HIV, both in writing and orally. An example challenge is: 1) Present a policy proposal on HIV screening for a defined population and jurisdiction to a panel of policymakers; 2) Develop educational materials for the proposal for the general public.</p> <p>And</p> <p>IDIS 8212–Students complete an interview called Cross-Cultural Doctor-Patient Relationship in which students must communicate in a culturally appropriate way with a standardized patient. See ERF.</p>

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<sup>61</sup> All MPH students take PUBH 6012 except MD/MPH students who take IDIS 8311 and IDIS 8212.

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
20	Describe the importance of cultural competence in communicating public health content.	PUBH 6021 Essentials of Public Health Practice and Leadership 1 Or IDIS 8212 Practice of Medicine 2 <sup>62</sup> Or IDIS 8212 Practice of Medicine 2 <sup>62</sup>	PUBH 6021—Students learn about the importance of cultural competence in communicating public health information during Weeks 1, 5 and 8. During the Week 8 live session, students participate in a group discussion on the topic (all students expected to participate). Students apply their knowledge during their group Public Health Challenge. Students complete a self and peer assessment to aid faculty in individually assessing students (p. 5). Or IDIS 8212—Students complete an interview called Cross-Cultural Doctor-Patient Relationship in which students must communicate in a culturally appropriate way with a standardized patient. See ERF.
21	Integrate perspectives from other sectors and/or professions to promote and advance population health.	PUBH 6023 Interprofessional Education Experience Or Interprofessional Education (IPE) Practice Experience <sup>63</sup>	PUBH 6023—Students participate in at least one preapproved interprofessional experience (IPE). Multiple face-to-face and online synchronous activities are available each term. Once a student completes an IPE, they complete two post-event assignments, an Interprofessional Attitudes Scale and a written self-assessment and reflection. Current IPE opportunities are available <a href="#">here</a> . See ERF. Or IPE Practice Experience—MD/MPH students complete an IPE practice experience. During each interprofessional experience, students are given a task requiring interdisciplinary collaboration. Example tasks include: (1) Collaborate to define your discipline's role in and leadership of an interdisciplinary team in response to an assigned patient case; (2) Collaborate with interdisciplinary team members to develop a case-based SBAR (Situation, Background, Assessment, Recommendation) to empower team members and facilitate prompt and appropriate communication.

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<sup>62</sup> All MPH students take PUBH 6012 except MD/MPH students who take IDIS 8212.

<sup>63</sup> All MPH students take PUBH 6023 except MD/MPH students who take the IPE Practice Experience as part of medical school (IDIS 8211 Practice of Medicine 1 and IDIS 8212 Practice of Medicine 2)

#	MPH Foundational Competencies	Courses	Specific Assignment(s) that Allow(s) Assessment
22	Apply a systems thinking tool to visually represent a public health issue in a format other than standard narrative.	PUBH 6011 Environmental and Biological Foundations of Public Health Or IDIS 8312 Patients in Health Systems <sup>64</sup>	PUBH 6011–In Week 4, students draw a process map (i.e., systems thinking tool) for a commodity in the Carbon Footprint and Life Cycle Mapping Project. During the live session, selected process maps will be shared (p. 2). Or IDIS 8312–In the final exam, students answer questions that assess this competency. Examples include: (1) Develop a process mapping diagram for continuous quality improvement of processes resulting in iatrogenesis; (2) Select a tool and complete a root cause analysis of factors contributing to medical errors.

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<sup>64</sup> All MPH students take PUBH 6011 except MD/MPH students who take IDIS 8312.

4) *Provide supporting documentation for each assessment activity listed in Template D2-2. Documentation should include the following, as relevant, for each listed assessment:*

- *assignment instructions or guidelines as provided to students*
- *writing prompts provided to students*
- *sample exam question(s)*

See ERF > Criterion D > Criterion D2 > D2.4: Temp D2-2\_Assessments.

5) *Include the most recent syllabus from each course listed in Template D2-1, or written guidelines, such as a handbook, for any required elements listed in Template D2-1 that do not have a syllabus.*

See ERF > Criterion D > Criterion D2 > D2.5: Temp D2-1\_syllabi.

6) *If applicable, assess strengths and weaknesses related to this criterion and plans for improvement in this area.*

#### Strengths

- The interprofessional education experience at GWSPH has won several awards and prizes in conjunction with our partner network of other universities.
  - Most recently, the Virtual Interprofessional Education Collaborative won the 2023 Interprofessional.Global Award at the All Together Better Health XI conference in Doha, Qatar.
  - Previous awards include runner-up and winner of the Health Communications & Health Technology prize awarded by the Interprofessional Education Collaboration (IPEC) and the United States Public Health Service Commissioned Officers Foundation (USPHS COF) in 2022 and 2021. The 2022 award was granted based on GWSPH's contributions in making the meso- and macro-level health issues more visible for all health sector disciplines in IPE curriculum. The 2021 award was granted on the partner network's collaborative efforts in developing a widely accepted virtual IPE model.
  - The partner network was also awarded the Lesley Diack Award for Outstanding Interprofessional Education Research in 2020 by the International Network for Health Workforce Education.
- Collectively, GWSPH faculty bring real-world experience and scholarly distinction to every area represented by the MPH foundational competencies; the faculty enthusiastically share their wealth of knowledge with students.
- GWSPH faculty who are strong in specialized areas bring their expertise to the relevant core courses taken by all students.
- At the same time, all GWSPH instructors use a standard syllabus template for their courses. This template includes sections for required competencies, assignment descriptions and course learning objectives, helping to ensure that faculty are effectively addressing and assessing competencies and course learning objectives. This linkage between competency and assessment was reinforced in a series of workshops in spring and summer 2022.
- Supporting specialization, GWSPH was able to customize the learning of foundational competencies for students in select programs. This customization allows students focusing on specific topics to bypass the foundational courses in favor of the more advanced or program-specific versions. For example, MPH in Biostatistics students, rather than enroll in the foundational statistics course, may enroll in software-specific statistics courses in SAS, R and Python. These classes give students a jump-start on

coding languages to better prepare Biostatistics students for later, more advanced courses.

- Since 2017, GWSPH has been a leading partner in establishing a network of 30+ institutions who collaborate in the design, delivery and research of virtual interprofessional education offerings, with focus on meso- and macro-level considerations of health issues alongside our clinical counterparts. GWSPH also has substantive involvement in university-based IPE activities, including GW IPE Day (all GW health sector programs), GW Clinical Public Health Summits (GW MD and MPH programs), virtual case activities (GW Nursing, MPH, MHA), Maternal and Child Health Policy and Advocacy IPE activity (GW Law, Nursing, MPH), and the GWSPH Urban Health Program. Taken together, this portfolio of IPE offerings provides GWSPH students with a broad range of opportunities to explore health issues of specific interest alongside students from other professions whom they may encounter in practice. More than 1,700 GWSPH students participated in IPEs from the spring 2020 to fall 2022.

#### Challenges

- To meet the needs of students, GWSPH operates a staggering number of courses each year, particularly in the MPH core. For example, in 2022-2023, there were over 45 residential and online sections of PUBH 6012 Fundamentals of Health Policy. We encourage instructors to personalize courses to some extent to reflect their area of expertise where case studies or examples are used. As a result, it is inevitable that there will be some variability in didactics and assignments.
- When the new CEPH criteria were implemented in 2018, the GWSPH core curriculum underwent significant changes including the folding of the biological and environmental factors into a single course and the creation of two new courses to address competencies such as leadership and negotiation. It took several iterations to finalize the content of these new classes in the context of student and faculty feedback.
- Between 2021 through 2022 (COVID-19), we allowed enrollment to surge without a material increase in faculty and ran multiple sections of core and required courses. Feedback from students was positive, but this put a lot of pressure on faculty to teach the extra sections.

#### Future Plans

- The new Director of Academic Planning and Accreditation is implementing systems to ensure more consistent and frequent review of course assessments to meet competency requirements. Currently this process occurs when syllabi are reviewed at the curriculum committee levels every few years or during the department's academic program review every seven years.