Public Health, M.P.H.

Degrees Offered

• Master of Public Health (MPH)

Nature of the Program

The WVU Master of Public Health (MPH) degree is a multidisciplinary professional degree focused on the application of science, research and theoretical knowledge toward the prevention of disease and improving health and well-being. MPH graduates possess a broad array of skills needed to address challenges affecting communities, including engaging and working with diverse people across sectors, educating the public about best practices in health, and advocating for policy- and systems-level changes that impacts entire populations. The MPH program teaches students to develop and implement evidence-based solutions to complex health issues. Graduates leave our program prepared to work in a variety of public health settings such as health departments, clinics, and federal agencies.

Areas of Emphasis

APPLIED EPIDEMIOLOGY AND BIOSTATISTICS

The MPH degree with an emphasis in Applied Epidemiology & Biostatistics is designed for those who wish to acquire knowledge and skills necessary for epidemiologic and biostatistical practice and research. The purpose of the degree program is to:

- Introduce core principles and concepts of epidemiology and biostatistics,
- · Develop proficiency in standard data management and biostatistical analysis
- · Apply epidemiologic and biostatistical concepts to address practical public health concerns

This degree is focused on workforce development and training the next generation of public health professionals. The WVU MPH program is most appropriate for students interested in applied epidemiology and biostatistics. After graduating students will be able to assist in developing epidemiologic studies and apply biostatistical analyses to a range of health scenarios. A diverse faculty create opportunities for students to gain knowledge and experience applying coursework to study injury, substance misuse, infectious diseases, chronic diseases, and more. The culmination of these abilities make our WVU MPH graduates competitive for fellowships, PhD programs, or employment within industry, hospitals, academic institutions, or global, federal, state, or local agencies. Examples of jobs include hospital infection control, public health department epidemiologist, CDC Fellowships, and data analyst at pharmaceutical or insurance agencies.

Where applicable, the program builds on the existing Applied Biostatistics Certificate and community partnership, like CDC NIOSH or the WV Clinical and Translational Sciences Institute which are located on campus. These experiences provide additional opportunities for students enhance their comprehensive core skillsets with more advanced applications in epidemiology and biostatistics.

APPLIED EPIDEMIOLOGY & BIOSTATISTICS AREA OF EMPHASIS COMPETENCIES

In addition to the standard MPH Foundational Competencies required of all MPH students, our area of emphasis in Applied Epidemiology & Biostatistics also prepares students to meet five competencies specific to the emphasis. These include:

- 1. Manage data structures efficiently using standard statistical software.
- 2. Analyze public health problems through epidemiological and biostatistical lenses.
- 3. Apply basic multivariable statistical techniques commonly used in clinical and public health settings.
- 4. Derive appropriate inferences from epidemiological and biostatistical data.
- 5. Develop written and oral presentations based on sound statistical analyses and epidemiological principles for both substantive investigators and members of the community.

PUBLIC HEALTH PRACTICE AND LEADERSHIP

The MPH degree with an emphasis in Public Health Practice and Leadership (PHPL) is focused on examining social and political systems that influence the health status of populations and then learning how to influence and/or design, implement, and manage broad, system-level instruments to improve population health outcomes. These instruments might include programs in public health agencies, not-for-profit organizations, or healthcare provider settings, or policies at the local, state, national, or international governmental levels.

The MPH emphasis in PHPL has a dual emphasis on acquiring both theoretical knowledge and practical skills. Thus, this degree is ideal for recent graduates or early- and mid-career public health professionals seeking to develop or advance their careers in a variety of health care settings. Additionally, the professional practice component of the program has been designed to place students in public health settings and apply their newly acquired knowledge and skills to address real-world problems.

Upon completion of the MPH degree with an emphasis in PHPL, students will be prepared to continue developing their careers as leaders, managers, public health professionals, policy analysts, program evaluators, advocates, or health program managers in a variety of public health, government, health care, or other professional settings. In addition, our students will be prepared to continue their graduate education at the doctoral level.

PUBLIC HEALTH PRACTICE AND LEADERSHIP AREA OF EMPHASIS COMPETENCIES

In addition to the standard MPH Foundational Competencies required of all MPH students, our area of emphasis in Public Health Practice and Leadership also prepares students to meet five competencies specific to the emphasis. These include:

- 1. Develop skills to influence the effective production and implementation of health policy.
- 2. Assess structures and processes for effective health services management.
- 3. Employ processes and applications that positively effect both individuals and group goals.
- 4. Develop data-driven analytic and economic skills for application to health service issues.
- 5. Appraise theory and skills in policy, management, and leadership to examine and influence real world health issues.

SOCIAL AND BEHAVIORAL SCIENCES

The MPH degree with an emphasis in Social and Behavioral Sciences (SBHS) addresses the behavioral, social, and environmental factors related to individual and population health and health disparities over the life span. Research and practice in this track contributes to the development, administration, and evaluation of programs and policies in public health to promote and sustain healthy environments and lives for individuals and populations.

A student who graduates with an MPH degree with an emphasis in Social and Behavioral Sciences from WVU will be qualified to work and provide leadership in public health and research settings at national, state or local levels, or work in the public or private sector on health promotion program implementation and evaluation efforts.

SOCIAL AND BEHAVIORAL SCIENCES AREA OF EMPHASIS COMPETENCIES

In addition to the standard MPH Foundational Competencies required of all MPH students, our area of emphasis in Social and Behavioral Sciences also prepares students to meet six competencies specific to the emphasis. These include:

- 1. Demonstrate community engagement principles when addressing public health problems.
- 2. Appraise qualitative data used for evaluating factors associated with improving public health.
- 3. Appraise quantitative data used for evaluating factors associated with improving public health.
- 4. Implement social behavioral theories & frameworks designed to describe public health problems and improve public health interventions.
- 5. Recommend interventions likely to improve public health.
- 6. Organize interventions, including the assessment, planning, implementation, and evaluation of public health interventions.

Admissions for 2026-2027

Baccalaureate degree from an accredited college or university with a preferred overall GPA of 3.0.

International graduate students must meet WVU's minimum score requirement for English language proficiency (https://graduateadmissions.wvu.edu/how-to-apply/apply-for-2023-2024/international-graduate-applicant/).

APPLICATION PROCESS

The WVU School of Public Health uses a two-part application process for the Master of Public Health program.

- 1. All applications must be submitted through the national SOPHAS service application, and if offered admission,
- 2. Applicants must also submit a WVU Graduate Application or WVU Online Gradate Application.

You can find more details about the application process on the WVU School of Public Health Graduate Apply Now page.

Step 1:

For the SOPHAS application, applicants must submit:

- · A statement of purpose and objectives
- Two letters of reference
- A current resume/curriculum vitae All university transcripts (SOPHAS requires original transcripts from ALL U.S. institutions attended, including study abroad)
- All foreign transcripts MUST be evaluated by World Education Services (WES)
- English proficiency scores are required for international students. Learn more about minimum score requirements <u>HERE</u>.

Submit your SOPHAS application as soon as possible. Do not wait for SOPHAS to receive transcripts, recommendations or test scores.

Allow up to four weeks for SOPHAS to verify and process your application.

Step 2:

If an offer of admission is made based off of the SOPHAS application, applicants will receive an email from the WVU School of Public Health regarding acceptance with instructions to complete the WVU Graduate application (https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwvu.my.site.com%2Fwvugrad%2FTX_SiteLogin %3FstartURL%3D%252Fwvugrad%252FTargetX_Portal__PB&data=05%7C02%7Capeluso%40hsc.wvu.edu %7Ccd33beaaa330441206eb08dd4c3ac80f%7Ca2d1f95f851044248ae15c596bdbd578%7C0%7C0%7C638750537543288600%7CUnknown %7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsllYiOilwLjAuMDAwMCIsllAiOiJXaW4zMilslkFOljoiTWFpbCIslldUljoyfQ%3D%3D %7C0%7C%7C%7C8sdata=sA78Y%2BpnUsttKrUR1XCGyz4fK9QZaQ%2Bt%2FUSWvmkaCUo%3D&reserved=0) or WVU Online Graduate application (https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fonline.wvu.edu%2Fadmissions%2Fgraduate-application %3Futm_source%3Dgoogle%26utm_medium%3Dcpc%26utm_campaign%3DSW-23_BR_Branded%26utm_term%3Dwvu%2520online_b %26gclid%3DEAlalQobChMl3Yj6ufaSiAMVB25HAR2kQDhIEAAYASAAEgJ_MvD_BwE&data=05%7C02%7Capeluso%40hsc.wvu.edu %7Ccd33beaaa330441206eb08dd4c3ac80f%7Ca2d1f95f851044248ae15c596bdbd578%7C0%7C0%7C638750537543300953%7CUnknown %7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsllYiOilwLjAuMDAwMCIsllAiOiJXaW4zMilslkFOljoiTWFpbCIslldUljoyfQ%3D%3D%7C0%7C%7C%7C%7C&sdata=UeojeqJxXX6bbxslEHMiNWAPQ%2BD8GYrzYhs9ly1NAjE%3D&reserved=0).

· Please do not complete the WVU Graduate Application or WVU Online Graduate Application until you are requested to do so.

Please Note: There are both SOPHAS and WVU application fees.

Major Code: 8402

Major Requirements

Code	Title	Hours
A minimum GPA of 3.0 is required.		
Students must earn a minimum grad	e of "C-" in all PUBH and emphasis coursework.	
BIOS 501	Applied Biostatistics 1	3
BIOS 502	Applied Biostatistics Lab	1
EPID 501	Epidemiology for Public Health	3
PUBH 510	Contemporary Foundations of Public Health Practice	2
PUBH 520	Building and Sustaining Public Health Capacity	2
PUBH 521	Public Health Prevention and Intervention	3
PUBH 540	Leading and Managing Health Organizations	3
PUBH 541	Systems Thinking in Public Health Practice	2
PUBH 613	Public Health Program Evaluation	3
PUBH 629	MPH Capstone	1
PUBH 630	MPH Field Practicum	3
PUBH 696	Graduate Seminar	1
General Elective		3
Approved Elective Courses availa	able from MPH Director and/or MPH Advisor	
Required Area of Emphasis		15
Applied Epidemiology and Biostat	tistics	
Public Health Practice and Leade	rship	
Social and Behavioral Sciences		
Total Hours		45

- 1. All students in the WVU SPH MPH program are required to maintain a portfolio that demonstrates their ability to meet the competencies associated with the MPH Foundational Courses, the Area of Emphasis Courses, and to apply a selection of those competencies in an approved practice-based setting(s). This portfolio must be submitted for review at the end of each academic year, as well as reviewed and approved prior to the successful completion of the program.
- 2. The MPH degree will be awarded based on successful completion of all academic requirements and demonstrated achievement of competencies via the student portfolio system and class-based evaluations of competency attainment.

Suggested Plan of Study

First Year						
Fall	Hours	Spring	Hours	Summer	Hours	
BIOS 501		3 PUBH 520		2 PUBH 630		3
BIOS 502		1 PUBH 540		3		
PUBH 510		2 PUBH 696		1		
PUBH 521 or EPID 501		3 AOE Course(s) or General Elective		3		
PUBH 541		2				
		11		9		3
Second Year						
Fall	Hours	Spring	Hours			
AOE Courses		6 PUBH 613		3		
Elective		3 PUBH 629		1		
EPID 501 or PUBH 521		3 AOE Courses or Electives		6		
		12		10		

Total credit hours: 45

Note: With approval from the MPH Program Director and the Director of Practice-Based Learning, PUBH 630: MPH Field Practicum can be taken anytime during Year 2. Students must select at least six credit hours for electives.

Areas of Emphasis

- Applied Epidemiology and Biostatistics (p. 4)
- Public Health Practice and Leadership (p. 4)
- Social and Behavioral Sciences (p. 5)

Applied Epidemiology and Biostatistics Area of Emphasis

Code	Title	Hours
BIOS 503	Applied Biostatistics 2	3
BIOS 611	Data Management and Reporting	3
EPID 512	Applied Epidemiology for Public Health	3
EPID 611	Concepts and Methods of Epidemiology	3
Elective		3
Approved elective courses avail	able from MPH Director and/or MPH Advisor	
Total Hours		15

Those seeking this emphasis must take BIOS 601 as a substitute for PUBH 612.

Public Health Practice and Leadership Area of Emphasis

Code	Title	Hours
Policy		3
Select one of the following:		
HPML 510	Health Economics	
HPML 601	Health Policy, Law, and Ethics	
Management and Leadership		3
Select one of the following:		
HPML 555	Health Services Project Management	
HPML 582	Managing Quality Improvement in Healthcare	
Managerial Analysis and Decision	-Making	3

Select one of the follow	ving:	
HPML 522	Introduction to Data Analytics for Health Administrators	
HPML 556	Managerial Epidemiology & Strategy	
Electives		6
Approved elective cour	ses available from MPH Director and/or MPH Advisor	
Total Hours		15

Social and Behavioral Science Area of Emphasis

Code	Title	Hours
SBHS 521	Grant Writing for Public Health Practice	1
SBHS 611	Community Assessment	3
SBHS 617	Community Engagement and Advocacy in Public Health	2
SBHS 619	Intervention Planning & Design	3
SBHS 620	Implementing and Managing Public Health Programs	3
Elective		3
Approved elective courses availa	able from MPH Director and/or MPH Advisor	
Total Hours		15

Accelerated Programs

- B.S. Immunology and Medical Microbiology and M.P.H. Public Health (p. 5)
- B.S. Public Health Sciences and M.P.H. Public Health (p. 7)

Accelerated Bachelor's/Master's Degree Requirements

Students must fulfill all degree requirements for the B.S in Immunology and Medical Microbiology, and must maintain a cumulative GPA of 3.0 or higher in IMMB in order to be eligible to continue in the accelerated IMMB-MPH program. They must continue to maintain a minimum 3.0 GPA beginning with the semester in which they enroll in MPH courses, continuing through the end of the ABM program, and must successfully complete 120 undergraduate credit hours by the end of year 4. Students are expected to remain in compliance with all Immunology and Medical Microbiology policies and procedures during the undergraduate portion, and with all Public Health policies and procedures during the graduate portion.

ABM Requirements

Code	Title
A minimum GPA of 2.7	75 is required in all coursework.
Undergraduate IMMB	Curriculum Requirements
Shared Bachelor's/Ma	ster's Curriculum Requirements
Graduate Public Healt	h Curriculum Requirements
Total Hours	

Shared Bachelor's/Master's Curriculum Requirements

Code	Title	Hours
EPID 501	Epidemiology for Public Health	3
BIOS 501	Applied Biostatistics 1 *	3
BIOS 502	Applied Biostatistics Lab	1
PUBH 200	Introduction to Public Health Careers and Information **	1
PUBH 510	Contemporary Foundations of Public Health Practice	2
PUBH 520	Building and Sustaining Public Health Capacity	2
PUBH 540	Leading and Managing Health Organizations	3
PUBH 541	Systems Thinking in Public Health Practice	2
PUBH 596	Graduate Seminar	1
Total Hours		14

ABM students take BIOS 501 instead of STAT 211 in the undergraduate curriculum.

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ABM students replace one credit of general elective with PUBH 200.

Suggested Plan of Study

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First Year						
Fall	Hours	Spring	Hours			
BIOL 115		4 BIOL 117		4		
& 115L (GEF 2))		& 117L (GEF 8)				
CHEM 115		4 CHEM 116		4		
& 115L (GEF 8)		& 116L (GEF 8)		2		
ENGL 101 (GEF 1)		3 ENGL 102 (GEF 1)		3		
IMMB 150		2 IMMB 175		2		
IMMB 191		1 PUBH 101 (GEF 4)		3 16		
Second Year		14		10		
Fall	Hours	Carina	Hours			
BIOL 219	nours	Spring 4 IMMB 275	Hours	2		
& 219L		4 IIVIIVID 273		2		
CHEM 233		4 IMMB 276		3		
& 233L				· ·		
IMMB 201		4 PHYS 101		4		
& 201L		& 101L				
MATH 150 (GEF 3)		3 PUBH 200		1		
		PUBH 201 (GEF 7)		3		
		GEF 5, 6		3		
		15		16		
Third Year						
Fall	Hours	Spring	Hours			
BIOS 501		4 IMMB 310		4		
& BIOS 502		& 310L				
BMM 339		4 IMMB 350		1		
IMMB 305		3 IMMB 375		2		
IMMB 320		3 PHYS 102		4		
B. 18.1		& 102L				
PUBH 510		2 PUBH 540		3		
		GEF 5, 6		3		
Facett Vaca		16		17		
Fourth Year				•		
Fall	Hours	Spring	Hours	Summer	Hours	0
EPID 501		3 IMMB 460		3 PUBH 630		3
IMMB 405		2 IMMB 470		3		
IMMB 420 & 420L		5 IMMB 484		3		
IMMB 450		1 IMMB 494		1		
PUBH 541		2 PUBH 520		2		
1 0011 041		PUBH 596		1		
		13		13		3
Fifth Year		10		10		3
Fall	Hours	Spring	Hours			
PUBH 521	110413	3 PUBH 613	110013	3		
1 0011 021		31 0011013		3		

Hours

Area of Emphasis Courses	6 PUBH 629	1	
Area of Emphasis Elective	3 Area of Emphasis Courses	6	
	12	10	

Total credit hours: 145

1

Note: Students in the ABM program are not required to take PUBH 511 or PUBH 512.

Accelerated Bachelor's/Master's Degree Requirements

In order to be admitted to this ABM program, applicants must:

- be enrolled in the Bachelor of Science in Public Health (BSPH) program.
- have a minimum GPA of 3.5.
- complete a minimum of 60 credit-hours, but not more than 75 credit-hours, as prescribed in the BSPH Plan of Study.
- Transfer students must have completed 24 credit hours as degree-seeking students at WVU before applying.
- earn a minimum grade of "A" in PUBH 205: Writing for Public Health Audiences.
- not be enrolled in a dual degree or certificate program.
- not have any documented infractions with the WVU Office of Student Conduct or any external law enforcement agencies.

Students will apply using a Qualtrics application form that requires a resume, personal statement, and two recommendations. The Qualtrics application will open from October 1-March 1 each academic year. Applications are due March 1, with program admission decisions communicated by the end of the spring semester.

ABM Requirements

Code	Title	Hours
BS Public Health Program	m Requirements	106
Shared Bachelor's/Maste	er's Curriculum Coursework	14
MPH Public Health Progr	am Requirements	25
Total Hours		145

Shared Bachelor's/Master's Coursework Requirements

Code	Title	Hours
SBHS 521	Grant Writing for Public Health Practice *	1
BIOS 501 & BIOS 502	Applied Biostatistics 1 and Applied Biostatistics Lab **	
PUBH 520	Building and Sustaining Public Health Capacity	2
PUBH 521	Public Health Prevention and Intervention	3
PUBH 540	Leading and Managing Health Organizations	3
PUBH 541	Systems Thinking in Public Health Practice	2
PUBH 596	Graduate Seminar	1
500-Level Elective		3
Total Hours		14

SBHS 521 is an undergraduate curriculum requirement. It will also fulfill an AOE requirement if chosen.

**

Code

BIOS 501 and BIOS 502 are taken in place of General Elective credits in the undergraduate curriculum.

Title

MPH Program Requirements

A minimum GPA of 3.0 is required.		
EPID 501	Epidemiology for Public Health	3

PUBH 613		Public Health Program Evaluation				3
PUBH 629		MPH Capstone				1
PUBH 630		MPH Field Practicum				3
Required Area of Em	nphasis					15
Applied Epidemiolo		tics				
Public Health Pract						
Social and Behavio						
Total Hours						25
Suggested P	lan of Stu	ıdy				
First Year						
Fall	Hours	Spring	Hours			
PUBH 191		1 PUBH 200		1		
PUBH 101		3 PUBH 201		3		
ENGL 101 (GEF 1)		3 PUBH 243		3		
GEF 2		4 GEF 3		3		
General Elective		3 GEF 8		3		
		General Elective		3		
		14		16		
Second Year						
Fall	Hours	Spring	Hours			
PUBH 202		3 PUBH 205		3		
PUBH 211		3 PUBH 222		3		
PUBH 233		3 PUBH 331		3		
ENGL 101 (GEF 1)		3 PUBH 311		3		
GEF 5		3 GEF 6		3		
		15		15		
Third Year						
Fall	Hours	Spring	Hours			
PUBH 352		3 PUBH 454		3		
PUBH 338		3 PUBH 481		4		
PUBH 493		3 PUBH 489		2		
PUBH 400		1 GEF 8		3		
GEF 8		3 General Elective		3		
General Electives		3				
		16		15		
Fourth Year						
Fall	Hours	Spring	Hours	Summer	Hours	
PUBH 521		3 SBHS 521		1 PUBH 630		3
PUBH 541		2 PUBH 520		2		
BIOS 501 & BIOS 502		4 PUBH 596		1		
General Elective		3 PUBH 540		3		
General Elective		3 500-Level Elective		3		
		General Elective		4		
_		15		14		3
Fifth Year						
Fall	Hours	Spring	Hours			
AOE Course		3 PUBH 613		3		
AOE Course		3 PUBH 629		1		
AOE Course		3 AOE Course		3		

EPID 501	3 AOE Course	3
	12	10

Total credit hours: 145

1

Note: Students enrolled in the ABM program do not take PUBH 510.

Major Learning Outcomes

PUBLIC HEALTH

Foundational Public Health Knowledge and MPH Foundational Competencies (Learning Outcomes) are determined by the School's accrediting body, the Council on Education for Public Health (CEPH). Competencies for Areas of Emphasis (which CEPH refers to as concentrations) are set by the program faculty and leadership.

MPH Foundational Public Health Knowledge

There are 12 elements of Foundational Public Health Knowledge in the MPH program:

- 1. Explain public health history, philosophy and values
- 2. Identify the core functions of public health and the 10 Essential Services
- 3. Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
- 4. List major causes and trends of morbidity and mortality in the U.S. or other community relevant to the school or program, with attention to disparities among populations, e.g., socioeconomic, ethnic, gender, racial, etc.
- 5. Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
- 6. Explain the critical importance of evidence in advancing public health knowledge
- 7. Explain effects of environmental factors on a population's health
- 8. Explain biological and genetic factors that affect a population's health
- 9. Explain behavioral and psychological factors that affect a population's health
- 10. Explain the cultural, social, political, and economic determinants of health and how the determinants relate to population health and health inequities
- 11. Explain how globalization affects global burdens of disease
- 12. Explain an ecological perspective on the connections among human health, animal health and ecosystem health (e.g., One Health)

MPH Foundational Competencies (Learning Outcomes)

The 22 MPH Foundational Competencies are organized into eight (8) domains:

Evidence-Based Approached to Public Health

- 1. Apply epidemiological methods to settings and situations in public health practice
- 2. Select quantitative and qualitative data collection methods appropriate for a given public health context
- 3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
- 4. Interpret results of data analysis for public health research, policy, or practice

Public Health & Health Care Systems

- 1. Compare the organization, structure and function of health care, public health, and regulatory systems across national and international settings
- 2. 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

Planning & Management to Promote Health

- 1. Assess population needs, assets, and capacities that affect communities' health
- 2. Apply awareness of cultural values and practices to the design, implementation, or critique of public health policies or programs
- 3. Design a population-based policy, program, project, or intervention
- 4. Explain basic principles and tools of budget and resource management
- 5. Select methods to evaluate public health programs

Policy in Public Health

- 1. Discuss the policy-making process, including the roles of ethics and evidence
- 2. Propose strategies to identify relevant communities and individuals and build coalitions and partnerships for influencing public health outcomes

- 3. Advocate for political, social or economic policies and programs that will improve health in diverse populations
- 4. Evaluate policies for their impact on public health and health equity

Leadership

- 1. Apply leadership and/or and management principles to address a relevant issue
- 2. Apply negotiation and mediation skills to address organizational or community challenges

Communication

- Select communication strategies for different audiences and sectors
- 2. Communicate audience-appropriate public health content, both in writing and through oral presentation to a non-academic, non-peer audience with attention to factors such as literacy and health literacy
- 3. Describe the importance of cultural humility in communicating public health content

Interprofessional Practice

1. Integrate perspectives from other sectors and/or professions to promote and advance population health

Systems Thinking

1. Apply systems thinking tools to visually represent a public health issue in a format other than standard narrative

Area of Emphasis Competencies (Learning Outcomes):

Applied Epidemiology & Biostatistics Emphasis

- 1. Manage data structures efficiently using standard statistical software.
- 2. Analyze public health problems through epidemiological and biostatistical lenses.
- 3. Apply basic multivariable statistical techniques commonly used in clinical and public health settings.
- 4. Derive appropriate inferences from epidemiological and biostatistical data.
- 5. Develop written and oral presentations based on sound statistical analyses and epidemiological principles for both substantive investigators and members of the community.

Public Health Practice & Leadership Emphasis

- 1. Develop skills to influence the effective production and implementation of health policy.
- 2. Assess structures and processes for effective health services management.
- 3. Employ processes and applications that positively effect both individuals and group goals.
- 4. Develop analytic, statistical, and economic skills for application to health service issues.
- 5. Appraise theory and skills in policy, management, and leadership to examine and influence real world health issues.

Social & Behavioral Sciences Emphasis

- 1. Demonstrate community engagement principles when addressing public health problems.
- 2. Appraise qualitative data used for evaluating factors associated with improving public health.
- 3. Appraise quantitative data used for evaluating factors associated with improving public health.
- 4. Implement social behavioral theories & frameworks designed to describe public health problems and improve public health interventions.
- 5. Recommend interventions likely to improve public health.
- 6. Organize interventions, including the assessment, planning, implementation, and evaluation of public health interventions.
- 7. Synthesize social and behavioral sciences principles to design an evaluation plan of a public health program.