

Health Promotion Track

Bachelor of Science in Health Promotion (BSHP)

<p align="center">Departmental Competencies</p>	<p align="center">Introduction to Health Promotion HPRB 3020</p>	<p align="center">Chronic Diseases Prevention HPRB 3850</p>	<p align="center">Community Health HPRB 3700</p>	<p align="center">Practicum in Health Promotion HPRB 3460</p>	<p align="center">Health Promotion Program Development HPRB 4400</p>	<p align="center">Field Experience HPRB 5560</p>
<p>Explain the role of theory in planning health promotion programs.</p>	X	X			X	X
<p>Design evidence-based health promotion programs for individuals and communities that include needs assessment, program design and implementation, budget, and evaluation components.</p>	X		X	X	X	X
<p>Identify health promotion resources relevant to intervention planning and implementation.</p>	X	X	X	X	X	X
<p>Describe appropriate methodological strategies to evaluate health promotion programs.</p>	X	X				X
<p>Describe behavioral, cultural, community and social factors associated with health and health disparity.</p>	X	X	X			X
<p>Develop a professional philosophy and discuss ethical principles of health promotion.</p>	X					X
<p>Describe the importance of community engagement, coalition building, and community organizing strategies to health promotion.</p>	X		X			X

**Health Services Track
Bachelor of Science in Health Promotion (BSHP)**

Departmental Competencies	Introduction to Health Promotion HPRB 3020	Chronic Diseases Prevention HPRB 3850	Community Health HPRB 3700	Practicum in HPRB HPRB 3470	Health Promotion Program Development HPRB 4400
Explain the role of theory in planning health promotion programs.	X	X			X
Design evidence-based health promotion programs for individuals and communities that include needs assessment, program design and implementation, budget, and evaluation components.	X		X	X	X
Identify health promotion resources relevant to intervention planning and implementation.	X	X	X	X	X
Describe appropriate methodological strategies to evaluate health promotion programs.	X	X			X
Describe behavioral, cultural, community and social factors associated with health and health disparity.	X	X	X		
Develop a professional philosophy and discuss ethical principles of health promotion.	X				
Describe the importance of community engagement, coalition building, and community organizing strategies to health promotion.	X		X		

Epidemiology

Doctor of Philosophy (PhD)

Departmental Competencies	Seminar in Epidemiology EPID 7100	Cohort Study Design, Implementation, and Analysis EPID 8010	Case Control Designs, Implementation, and Analysis EPID 8020	Teaching Practicum EPID 8030	Clinical Trial Designs, Implementation, and Analysis EPID 8040	Integrating Research Designs EPID 8050	Biomedical Ethics and Research Integrity in Epidemiology EPID 7700	Statistical Analysis of Clinical Trials BIOS 8220	Survival Analysis BIOS 6380	Categorical Data Analysis BIOS 8110
Identify key sources of data for epidemiologic purposes	X	X			X				X	
Comprehend basic ethical and legal principles pertaining to the collection, maintenance, use, and dissemination of epidemiologic data			X			X				
Calculate epidemiologic measures and draw appropriate inferences from epidemiologic data		X				X			X	
Communicate epidemiologic information to professional and lay audiences	X								X	
Be proficient in the practical management of studies, including data management		X								
Evaluate the strengths and limitations of epidemiologic	X					X				

reports.										
Design valid observational studies to answer epidemiological questions		X	X						X	
Design valid intervention studies to answer epidemiological questions	X									
Understand causality as it applies to epidemiology		X				X				
Understand the history of the discipline and how it provides a context for current research and practice		X								
Choose the correct study design to answer epidemiologic questions.			X		X	X			X	
Prepare a successful proposal for funding.						X			X	

<p align="center">Health Promotion and Behavior</p> <p align="center">Doctor of Philosophy (PhD)</p>				
<p align="center">Departmental Competencies</p>	<p align="center">Human Ecology of Health and Illness</p>	<p align="center">Theory and Research in Health Promotion</p>	<p align="center">Intervention and Evaluation in Health Promotion</p>	<p align="center">Critique of the Literature</p>
	<p align="center">HPRB 8410</p>	<p align="center">HPRB 8420</p>	<p align="center">HPRB 8430</p>	<p align="center">HPRB 9630</p>
<p>Analyze and interpret research results and epidemiological data to identify research questions, knowledge gaps, and methodological shortcomings that if addressed, hold potential for advancing our understanding of important public health problems.</p>	<p>X</p>	<p>X</p>		<p>X</p>
<p>Use appropriate theories of behavior and social change to design and execute research that addresses important empirical questions related to health behavior and disease and injury prevention.</p>	<p>X</p>	<p>X</p>		<p>X</p>
<p>Utilize appropriate research designs, data collection strategies, and quantitative and qualitative analytic methods to conduct research on health behavior and disease and injury prevention.</p>	<p>X</p>	<p>X</p>	<p>X</p>	
<p>Make use of appropriate scholarly communication channels to share research results, disseminate evidence-based strategies and approaches, and otherwise share in the critical exchange of ideas and solutions pertinent to health behavior and disease and injury prevention.</p>	<p>X</p>			<p>X</p>

Effectively participate and contribute with other public health researchers and professionals as part of collaborative or cross-disciplinary research and problem-solving teams.				
Integrate principles of good ethical practice and cultural sensitivity in all aspects of research, teaching, and professional practice.	X	X		
Prepare research proposals that are guided by behavioral theory and include appropriate research methodology.		X		

**Master of Public Health (MPH)
Biostatistics**

Departmental Competencies	Introduction to Biostatistics II BIOS 7020	Introduction to Epidemiology II EPID 7020	Mathematical Statistics I BIOS 8050	Survival Analysis BIOS 6380	Categorical Data Analysis BIOS 8110	Clinical Trials BIOS 8220
Use an understanding of public health research, practice and ethics to inform biostatistical practice.	X	X				X
Collaborate in the design of public health surveys and biomedical experiments.		X				X
Describe concepts of probability, random variation, and commonly used probability distributions.				X		
Carry out and communicate exploratory data analyses including the production of tabular summaries, graphical displays and descriptive statistics.	X			X		
Select the appropriate statistical procedure for statistical analysis based on study objectives, study design, and the types of variables involved.	X	X		X		X
Apply common statistical procedures including simple and multiple regression, analysis of variance, analysis of contingency tables, nonparametric methods, logistic regression, and survival analysis using at least one statistical software package.	X			X	X	X
Demonstrate knowledge of assumptions underlying common statistical procedures, apply appropriate diagnostic methods, and understand the consequences of violations of model assumptions.	X			X	X	
Communicate orally and in writing descriptions of common statistical procedures, results of statistical analyses, and conclusions from such analyses.	X	X		X	X	X

Master of Public Health (MPH) Disaster Management (DMAN)				
Departmental Competencies	Introduction to Disaster Management (Disaster Management I) DMAN 7100	Disaster Management for Health Professionals (Disaster Management II) DMAN 72000	Public Health Crises and Disaster Management (Disaster Management III) DMAN 7400	Crisis Communications and Decision Support (Disaster Management IV) DMAN 7500
Explain methods of insuring community health and safety preparedness	X	X	X	
Demonstrate proficiency in the use of an all-hazards framework for disaster planning and mitigation	X			
Apply strategies for sharing information with internal and external partners	X			X
Apply principles of crisis and risk communication	X			
Identify the roles and relationships among federal, tribal, state, and local governments and non-governmental organizations	X			X
Describe psychosocial consequences likely to be experienced by public health workers and community members			X	
Demonstrate proficiency in the use of triage systems in a disaster or public health emergency		X		
Demonstrate proficiency in the provision of health system surge capacity for the management of mass casualties in a disaster or public health emergency		X	X	
Demonstrate proficiency in the management of mass fatalities in a disaster or public health emergency		X	X	
Demonstrate proficiency in the initiation, deployment, and coordination of national, regional, state, local and institutional incident command and emergency operations systems		X		X
Analyze the ethical challenges faced by public health workers and public health organizations				X

Master of Public Health (MPH)

Environmental Health Science

Competencies	Pick 4 of 5 Areas							
	Air Quality EHSC 6080	Pick 1 of 2		Pick 1 of 2		Fundamentals of Chemical and Microbial Risk Assessment EHSC 8110/L	Pick 1 of 2	
		Water Pollution EHSC 6610	Oceans and Human Health EHSC 8410	Environmental Toxicology EHSC 6490	Introduction to Toxicology PHRM 6910		Environmental Microbiology EHSC 6310/L	Adv. topics in Aquatic Microbiology EHSC 8310
Understand the basic mechanism by which environmental and occupational pollutants impact health.	X	X	X	X	X		X	X
Understand the basic sciences deemed most relevant for the study of environmental and occupational health.	X	X	X	X			X	
Be able to collect, analyze and interpret environmental and occupational data.				X		X	X	X
Demonstrate the ability to implement an occupational or environmental health investigation or project and clearly report on the result.		X		X		X		X
Specify approaches for assessing, preventing, and controlling environmental hazards that pose risks to human health and safety.	X	X		X		X	X	
Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents.	X	X		X	X		X	
Specify current environmental risk	X			X		X		

assessment methods.								
Describe relevant factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.	X			X	X			
Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity.	X					X		
Explain the general mechanisms of toxicity in eliciting a toxic response to various environmental exposures.		X		X	X			
Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues.	X		X					

Master of Public Health (MPH) Epidemiology				
Departmental Competencies	Introduction to Epidemiology II EPID 7020	Introduction to Biostatistics II BIOS 7020	Current Topics in Epidemiology (Take 2) EPID 7100	Advanced Field Epidemiology and Surveillance EPID 7410
Demonstrate a working knowledge of current and emerging major public health issues related to communicable and non-communicable disease.	X		X	X
Apply the basic terminology and definitions of epidemiology in oral presentations and written reports.	X	X	X	X
Critically review and summarize epidemiologic literature.	X	X	X	X
Access and utilize epidemiological data available at the state, national and international level.		X	X	X
Demonstrate the understanding of basic epidemiologic study designs.	X	X	X	X
Identify and be able to apply surveillance methods used in both infections and chronic diseases.	X	X	X	X
Be able to draw appropriate inference from epidemiologic data.	X	X	X	X
Be sensitive to social, cultural and ethnic differences that may influence the conduct and execution of epidemiologic studies.	X		X	X
Possess knowledge of the development of epidemiology and the historical contributions of the discipline to public health.			X	

Gerontology					
Master of Public Health (MPH)					
Departmental Competencies	Perspective in Aging GRNT 6000	Psychology of Aging GRNT 6700	Aging in Society GRNT 6650	Select One Course	
				Public Health and Aging GRNT 8200	Epidemiology of Aging GRNT/EPID 8300
Apply the basic terminology and definitions of gerontology in oral presentations and written reports.	X	X		X	
Appraise public health problems in terms of magnitude, person, time, and place.	X		X	X	X
Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice.	X	X		X	
Describe the cultural, social, and behavioral determinants of aging.		X	X		
Utilizes appropriate methods for interacting sensitively, effectively, and professionally with persons from diverse cultural, socioeconomic, educational, racial, ethnic and professional backgrounds, and persons of all ages and lifestyle preferences	X		X		
Assess evidence-based principles and the scientific knowledge base to critical evaluation and decision-making in public health.	X	X		X	X
Explain how professional ethics and practices relate to equity and accountability in diverse community settings.	X	X		X	

Master of Public Health (MPH) Health Policy and Management				
Departmental Competencies	Management Track			
	Healthcare Finance HPAM 8650	Management of Public Health Organizations HPAM 8700	Foundations of Leadership HPAM 8800	Strategic Management HPAM 8890
Formulate the policy process for improving the health status of populations.				
Assess evidence-based principles of program planning, development, budgeting, management and evaluation in organizational and community initiatives.			X	
Demonstrate leadership and communication skills for building partnerships.		X	X	X
Describe the legal and ethical basis for public health and health services.				
Explain methods of ensuring community health and safety preparedness.		X		
Apply principles of strategic planning and marketing to public health.	X	X	X	X
Apply quality and performance improvement concepts to address organizational performance issues.	X	X	X	X
Apply “systems thinking” for resolving organizational problems.	X	X	X	X

Master of Public Health (MPH) Health Policy and Management				
Departmental Competencies	Policy Track			
	Policy and Economic Analysis in Public Health HPAM 8400	Policy Evaluation HPAM 8450	Health Economics HPAM 8600	Public Health Law HPAM 7400
Formulate the policy process for improving the health status of populations.	X	X	X	X
Assess evidence-based principles of program planning, development, budgeting, management and evaluation in organizational and community initiatives.				
Demonstrate leadership and communication skills for building partnerships.	X			
Appraise Public Health problems in terms of magnitude, person, time, and place.		X	X	X
Apply the core functions of assessment, policy development, and assurance in the analysis of public health problems and their solutions.	X	X	X	
Analyze the effects of political, social, and economic policies on public health systems at the local, state, national, and international levels.		X	X	X
Assess evidence-based principles and the scientific knowledge base to critical evaluation and decision-making in public health.		X	X	X

Health Promotion and Behavior

Master of Public Health (MPH)

Departmental Competencies	Resource Development and Program Implementation HPRB 7270	Social Marketing of Health: Theory and Process HPRB 7370	Program Evaluation in Health Promotion and Education HPRB 7470	Community Health HPRB 7500	Health Behavior and Theory HPRB 7920
Use theory of behavior and social change to inform the planning and evaluation of health interventions.	X	X	X		X
Apply evidence-based approaches to identify effective individual, community, and policy level health promotion programs.	X	X	X		X
Design and implement effective individual, community, and policy level health promotion programs.	X	X			X
Assess the health needs of a community.	X	X		X	
Utilize appropriate research design, data collection strategies, quantitative and qualitative methods to evaluate health promotion programs.		X	X	X	
Describe the cultural, social, and behavioral determinants of health and health disparities.		X		X	X
Develop and adapt approaches to health promotion issues that take into account cultural differences.	X	X		X	X
Identify strategies for developing partnerships, community organizing, and coalition building to address health promotion issues.	X	X		X	
Integrate ethical considerations and values in all aspects of public health practice.	X	X		X	X

Doctor of Public Health
(DrPH)

Competency	HPAM 8800 Leadership	EPID 7700 Ethics	EHSC 8110 Risk Assessment	HPRB 9310 Health Communication	HPAM 8700 Management	PBHL 9100 Seminar I	PBHL 9200 Seminar II	HPAM 8400	PBHL 9560 Residency	PBHL 9300 Doctoral Research
ADVOCACY: The ability to influence decision-making regarding policies and practices that advance public health using scientific knowledge, analysis, communication, and consensus building										
A1. Present positions on health issues, law, and policy.		X	X	X	X	X	X	X	X	*
A2. Influence health policy and program decision-making based on scientific evidence, stakeholder input, and public opinion data.		X		X	X	X	X	X	X	*
A3. Utilize consensus-building, negotiation, and conflict avoidance and resolution techniques.	X	X		X	X	X	X		X	*
A4. Analyze the impact of legislation, judicial opinions, regulations, and policies on population health		X	X			X	X	X	*	*
A5. Establish goals, timelines, funding alternatives, and strategies for influencing policy initiatives.	X		X	X	X				*	*

A6. Design action plans for building public and political support for programs and policies.	X	X	X	X	X	X	X	X	*	*
A7. Develop evidence-based strategies for changing health law and policy.		X	X	X		X	X		*	*
B1. Discuss the inter-relationships between health communication and marketing.				X			X		*	*
B2. Explain communication program proposals and evaluations to lay, professional, and policy audiences.				X				X	X	*
B3. Employ evidence-based communication program models for disseminating research and evaluation outcomes.				X					*	*
B4. Guide an organization in setting communication goals, objectives, and priorities.	X		X	X					*	*
B5. Create information and persuasive communications.	X			X					*	*
B6. Integrate health literacy				X					*	*

concepts in all communication and marketing initiatives.										
B7. Develop formative and outcome evaluation plans for communication and marketing effects.				X					*	*
B8. Prepare dissemination plans for communication programs and evaluations.				X					*	*
B9. Propose recommendations for improving communications processes.				X					*	*
C1. Develop collaborative partnerships with communities, policy makers, and other relevant groups.	X		X	X		X	X		*	*
C2. Engage communities in creating evidence-based, culturally competent programs.	X			X		X	X		*	*
C3. Conduct community-based participatory intervention and research projects.				X					*	*
C4. Design action plans for enhancing community and			X						*	*

population-based health.										
C5. Assess cultural, environmental, and social justice influences on the health of communities.				X					X	*
C6. Implement culturally and linguistically appropriate programs, services, and research.		X							*	*
D1. Apply theoretical and evidence-based perspectives from multiple disciplines in the design and implementation of programs, policies, and systems		X		X	X	X	X	X	X	X
D2. Interpret quantitative and qualitative data following current scientific standards.			X	X		X	X		X	X
D3. Design needs and resource assessments for communities and populations.			X			X	X		X	*
D4. Develop health surveillance systems to monitor population health, health equity, and public health services.			X			X	X		*	*
D5. Synthesize information	X		X	X		X	X	X	X	X

from multiple sources for research and practice.										
D6. Evaluate the performance and impact of health programs, policies, and systems.			X			X	X	X	X	*
D7. Weigh risks, benefits, and unintended consequences of research and practice.			X	X		X	X		X	X
E1. Communicate an organization's mission, shared vision, and values to stakeholders.	X	X		X		X	X		X	*
E2. Develop teams for implementing health initiatives.	X	X				X	X		X	*
E3. Collaborate with diverse groups.	X	X				X	X		X	*
E4. Influence others to achieve high standards of performance and accountability.	X	X			X	X	X		X	*
E5. Organizational decision-making and planning based on internal and external environmental research.		X				X	X		X	*

E7. Create a shared vision	X	X				X	X		X	*
E8. Develop capacity-building strategies at the individual, organizational, and community level.	X	X				X	X		X	*
E9. Demonstrate a commitment to personal and professional values.	X	X				X	X		*	X
F1. Implement strategic planning process	X	X			X	X	X		X	*
F2. Apply principles of human resource management.	X	X			X	X	X		X	*
F3. Use informatics principles in the design and implementation of information systems.		X			X	X	X		*	*
F4. Align policies and procedures with regulatory and statutory requirements.		X	X			X	X		X	*
F5. Deploy quality improvement methods.		X				X	X		X	*
F6. Organize the work environment with defined lines of responsibility,		X			X	X	X		*	*

authority, communication, and governance.										
F7. Develop financial and business plans for health programs and services.		X			X	X	X		*	*
F8. Establish a network of relationships, including internal and external collaborators.	X	X		X	X	X	X		X	*
F9. Evaluate organizational performance in relation to strategic and defined goals.		X	X		X	X	X		X	*
G1. Manage potential conflicts of interests encountered by practitioners, researchers, and organizations.	X	X		X	X	X	X		X	*
G2. Differentiate among the administrative, legal, ethical, and quality assurance dimensions of research and practice.		X			X	X	X	X	X	*
G3. Design strategies for resolving ethical concerns in research, law, and regulations.		X		X	X	X	X		X	*
G4. Develop tools that protect eh privacy of		X				X	X		X	X

individuals and communities involved in health programs, policies, and research.										
G5. Prepare criteria for which the protection of the public welfare may transcend the right to individual autonomy.		X		X	X	X		X	X	*
G6. Assess ethical considerations in developing communications and promotional initiatives.		X		X	X	X			X	*
G7. Demonstrate cultural sensitivity in ethical discourse and analysis.		X		X	X	X		X	X	*

*Indicates that these competencies are variable with the specified learning objectives of the DrPH Residency, and the focus of Doctoral Research.