

PHD ENVIRONMENTAL HEALTH COMPETENCIES

Academic Public Health Doctoral Degrees – PhD Environmental Health (EVHT) Concentration		
<u>PhD EVHT COMPETENCY</u>	<u>COURSE</u>	<u>SPECIFIC ASSESMENT OPPORTUNITY</u>
PhD EVHT 1. Effectively communicate the concepts of source to receptor of environmental and occupational hazards and the differentiation of the concepts of exposure from dose.	PPPH 8310 Environmental and Occupational Epidemiology	Midterm Exam
PhD EVHT 2. Critically analyze alternate routes of entry of toxins into the body including inhalation, ingestion (both dietary and non-dietary) and dermal and the importance of integration of routes with regards to total dose.	PPPH 9270 Environmental Exposure Analysis	Homework (4 parts total)
PhD EVHT 3. Demonstrate expertise with instrumentation and their underlying constructs employed for the measurement of chemical, physical and biologic hazards in air, water, soil, and dust.	PPPH 9270 Environmental Exposure Analysis	Final Project
PhD EVHT 4. Understand health effects of chemical, physical and biologic agents and the interrelationship of toxicity and dose in defining levels of risk.	PPPH 8310 Environmental and Occupational Epidemiology	Grant Application/Policy Briefing Assignment
PhD EVHT 5. Critically review, synthesize, and evaluate community and governmental agency conduct of environmental research and interventions and present appropriate implications for public health practice, public policy, and further research.	PPPH 8320 Human Health and Global Environmental Change	Final Exam
PhD EVHT 6. Incorporate ethical standards of practice as the basis of interactions with organizations, communities, and individuals.	PHPB 9150 Public Health Ethics	Final Exam

PHD EPIDEMIOLOGY COMPETENCIES

Academic Public Health Doctoral Degrees – PhD Epidemiology (EPID) Concentration		
<u>PhD EPID COMPETENCY</u>	<u>COURSE</u>	<u>SPECIFIC ASSESMENT OPPORTUNITY</u>
PhD EPID 1. Understand the strengths and weaknesses of various epidemiologic study designs and research methods.	PHPH 9741 Advanced Topics in Epidemiologic Methods	Assignment #6
PhD EPID 2. Demonstrate expertise in the ethical conduct of human subjects research, including confidentiality and vulnerable populations.	PHPB 9150 Public Health Ethics	Midterm (Primary) & Case Study Presentations (Secondary)
PhD EPID 3. Critically review, synthesize, and evaluate the scientific literature and present appropriate implications for public health practice, public policy, and further research.	PHPH 9731 Epidemiologic Methods III	Assignment #3
PhD EPID 4. Demonstrate proficiency in epidemiological research by: (1) formulating a research question and/or corresponding hypotheses, (2) developing the study design, (3) participating in data collection, (4) conducting statistical analyses, and (5) interpreting scientific results.	PHPH 9741 Advanced Topics in Epidemiologic Methods	Assignment #6
PhD EPID 5. Demonstrate mastery and independence as a researcher by pursuing and completing a specialized area of epidemiologic research.	PHPH 9741 Advanced Topics in Epidemiologic Methods	Assignment #6
PhD EPID 6. Effectively present and disseminate findings from epidemiologic research to scientific and lay audiences.	PHPH 8830 Advanced Statistical Topics	Final Presentation

PHD HEALTH PROMOTION AND BEHAVIOR COMPETENCIES

Academic Public Health Doctoral Degrees – PhD Health Promotion and Behavior (HPMB) Concentration		
<u>PhD HPMB COMPETENCY</u>	<u>COURSE</u>	<u>SPECIFIC ASSESMENT OPPORTUNITY</u>
PhD HPMB 1. Develop expertise in social and behavioral theory, and application of theory to address public health problems at the individual, community or population level.	PHPB 9120 Theory and Practice in Health and Prevention Instruction	Final Exam
PhD HPMB 2. Critically analyze research in terms of the appropriateness of the study design, sample, measures, data analysis, results, and interpretation and critically evaluate the potential impact of the new knowledge gained on public health practices and policies.	PHPB 9095 Measurement and Outcomes in Social and Behavioral Health	Final Survey & Report
PhD HPMB 3. Develop expertise in research methods and the ethical conduct of research to address scientific questions regarding health promotion research and practice.	PHPB 9130 Intervention and Evaluation of Health Promotion and Disease Prevention	Final Project Paper
PhD HPMB 4. Develop expertise in statistical and analytic methods used in health promotion research and practice.	PHPB 9140 Advanced Research Methods	Grant Proposal & Brief Journal Article
PhD HPMB 5. Develop expertise in planning, implementation, evaluation, and dissemination of social and behavior interventions and/or policies that address public health and health behavior, especially around social-ecological interventions and interventions that address health disparities.	PHPB 7535 Dissemination and Implementation Science	Final Project
PhD HPMB 6. Develop expertise in the communication of scientific findings, both writing and oral presentations, for both scientific and lay audiences.	PHPB 7535 Dissemination and Implementation Science	Final Presentation (Implementation Plan)

PHD HEALTH SERVICES AND POLICY RESEARCH COMPETENCIES

Academic Public Health Doctoral Degrees – PhD Health Services and Policy Research (HSRP) Concentration		
<u>PhD HSRP COMPETENCY</u>	<u>COURSE</u>	<u>SPECIFIC ASSESMENT OPPORTUNITY</u>
PhD HSRP 1. Apply social science (economics, political science, sociology, etc.) concepts, theories and methods to the framing and analysis of research questions in health services delivery and health care policy.	PHPB 9240 Principles of Health Service Research II: Methods	Term Paper
PhD HSRP 2. Describe major problems in health services delivery and health care policy that are currently the subject of empirical investigations.	PHPB 9220 Principles of Health Service Research I: Themes	Brief Papers 1-4
PhD HSRP 3. Apply advanced methods of analysis and research design to describe policy-relevant issues in contemporary health care, such as: access to health care, health care financing, insurance market functioning, physician and hospital performance, healthcare management and organization, patient safety and quality of care, and health care workforce.	PHPB 9240 Principles of Health Service Research II: Methods	Problem Sets & Brief Reports 1-3 (submitted together as a two-part assignment)
PhD HSRP 4. Effectively communicate concepts and methods of health services and health policy research.	PHPB 9240 Principles of Health Service Research II: Methods	Term Paper Presentation (Seminar)
PhD HSRP 5. Design a health services or health policy research proposal involving qualitative, quantitative, or mixed methods approaches.	PHPB 9220 Principles of Health Service Research I: Themes	Term Paper & Seminar Presentation (submitted together as final for the course)
PhD HSRP 6. Conduct a health services or health policy research activity investigation suitable for peer-reviewed publication as an independent researcher.	PHPB 8250 Health Economics and Policy	Final Paper
PhD HSRP 7. Function as a collaborative team member in the design and conduct of a health services or health policy investigation.	PHPB 8250 Health Economics and Policy	In-Class Presentations (Small-group collaborative work)