

Table 2.6.1.b PhD Competencies Matrix

PhD in Epidemiology Competencies	<p>Produce the descriptive epidemiology of a given condition, including case definition, calculation of the primary measures of disease morbidity and mortality & appropriate comparisons by person, place and time</p> <p>List the strengths & limitations of descriptive studies</p> <p>Identify data from existing national & int'l sources</p> <p>Identify major chronic and infectious diseases, their general pathophysiology, descriptive epidemiology and risk factors</p> <p>Identify leading causes of death</p> <p>Understand the general history of the development of epidemiology, including the major epidemiological studies of selected diseases</p> <p>Know the principles of screening and of surveillance systems, including understand the concepts of validity and reliability of screening tests and be able to calculate associated measures and know the types of surveillance systems and approaches used in disease surveillance</p> <p>Understand the global, cultural, and social context of health problems and how these influence the conduct, interpretation, and dissemination of research and intervention studies</p>	<p>P</p> <p>R</p> <p>P</p> <p>R</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p> <p>P</p>	PH 655 Biostatistics I PH 656 Biostatistics II PH 658 Computer Applications in PH PH 663 Principles of Epi I PH 664 Principles of Epi II PH 665 Infectious Diseases Microbiology I PH 669 Epidemiology Study Design PH 747 Stat Methods in Epi Research PH 748 Chronic Disease Epi PH 771 Teaching Practicum PH 772 Research Practicum PH 800 Dissertation Research

