

**Competency Crosswalk for Core Courses
in the Undergraduate Major in Public Health**

Competency Description	Public Health Core Course
1. Explain the population health perspective and the methods used by public health to define and address population-wide/social concerns and the needs of vulnerable populations through the provision of essential services.	1101, 2112, 3133
2. Apply options for intervention frameworks including when (primary, secondary, and tertiary), who (individual, at-risk group, general population) and how (education, motivation, obligation) to intervene.	1101, 2110, 2112
3. Explain principles of epidemiology necessary to understand health and impairments of health including the uses of rates, the meaning of causation, and the evaluation of the effectiveness of interventions. Apply principles of epidemiology to reading research articles including case-control, cohort studies and randomized clinical trials.	3131, 3132, 3133
4. Explain from a national and global perspective the burden of disease, social-economic determinants of health, the links between health and development, and approaches to international cooperation to monitor, promote and protect health. Describe the most cost-effective interventions to address key issues e.g. nutrition, TB, malaria, and HIV and long term issues including sustainability.	1101, 3133, 4140
5. Describe biological principles needed to understand public health issues across the life span and apply these principles to public health interventions to eliminate, prevent, and control disease and to minimize their impact on health.	1101, 2110, 2111
6. Explain the use of clinical and community interventions for assessing, protecting, and improving health and preventing, detecting, curing and minimizing the impact of disease.	2111, 3132, 3133
7. Explain the way biological, environmental, and psycho-social and cultural factors interact in disease production across time and understand how these influences can impact prevention strategies. Describe historical examples of the changing definitions of public health in a variety of cultures and times, including major scientific advancements and achievements that have had a significant impact on the advancement of public health. Compare and contrast response to public health issues in different times and cultures.	1102
8. Describe the current U.S. and selected global public health and health care delivery systems; explain structures for and approaches to development of health policies; apply knowledge of the U.S. public health and health care delivery systems to current policy debates; and apply principles for conducting a health policy analysis.	1101, 3133, 3135, 4140
9. Explain the range of social and behavioral theories applicable to health behavior and apply these theories to interventions addressing a variety of health impairing conditions, populations, and intervention contexts.	2112
10. Explain the impacts of the physical environment on health and use these explanations to understand human actions that alter, detect, and /or minimize these impacts.	3132, 3133
11. Describe and explain the impact of management theory, and economics as applied to managing in the health services and public health field.	3130
12. Synthesize interdisciplinary approaches to the analysis of national and global determinants of health and disease as well as interventions to eliminate or control diseases and other health impairing conditions.	4140

