

## **Learning Objectives for M.P.H. in Chronic Disease Epidemiology**

### **Core Curriculum**

Upon completing the core curriculum of the M.P.H. program, the student will be able to:

- Demonstrate a knowledge base in the disciplines of biostatistics, chronic and infectious disease epidemiology, health systems, public policy, social and behavioral sciences, and environmental health.
- Apply basic research skills to specific public health problems in both group and individual settings, including the ability to define problems; construct, articulate and test hypotheses; draw conclusions; and communicate findings to a variety of audiences.
- Explain the interrelationships between a multitude of factors that can impact on a public health problem, including scientific, medical, environmental, cultural, social, behavioral, economic, political, and ethical factors.
- Review, critique, and evaluate public health reports and research articles.
- Apply public health concepts, principles, and methodologies obtained through formal course work to actual problems experienced in the community or work environment.
- Critically evaluate programs, interventions, and outcomes that relate to public health practice.
- Apply ethical standards and professional values as they relate to the practice of public health.
- Demonstrate sensitivity to the social context within which public health professionals practice.

### **Chronic Disease Epidemiology**

Upon receiving an M.P.H. degree with a concentration in Chronic Disease Epidemiology, the student will be able to:

- Evaluate the scientific merit and feasibility of epidemiologic study designs.
- Describe the epidemiology of common chronic diseases with more in-depth knowledge of a specialty area.
- Apply basic principles of disease prevention to prevent and control chronic diseases.
- Synthesize information from a variety of epidemiologic and related studies.
- Design and carry out epidemiologic studies, with minimal supervision.
- Analyze data and draw appropriate inferences from epidemiologic studies at an intermediate level.
- Demonstrate oral and written communication and presentation skills to effectively communicate and disseminate results to various professional and community audiences.
- Describe basic pathophysiologic and/or psychopathologic mechanisms.
- Identify, interpret, and use routinely collected data on disease occurrence.
- Review, critique and evaluate epidemiologic reports and research articles at an intermediate level.