

## **PhD in PUBLIC HEALTH SCIENCES**

**Academic Year 2013-2014**

**Environmental Health Sciences**

### **Program Profile**

The PhD program in Public Health Sciences prepares professionals for research, teaching, and service with the overall objective of improving the health of populations. To meet this objective, all students in the program pursue excellence in conducting research and disseminating knowledge. The primary focus is on research that advances knowledge and facilitates discovery regarding etiology, interventions, and policies that promote health at the individual, population, societal, and/or global levels. The concentration of environmental health sciences will prepare students to research, teach and apply knowledge on the interrelationships between the environment and human health and the regional, national and global significance. Students will be equipped to apply their research skills and knowledge to recognize, evaluate and prevent exposures that may adversely impact human health and environmental quality, whether in the natural or human-made environment. Upon completion of the PhD in Public Health Sciences degree with a concentration in Environmental Health Sciences, the student will have demonstrated proficiency in the following competencies:

- Identify environmental agents and their sources, and discuss and describe the implications of sources, transport mechanisms, toxicodynamics, genetics, physiologic, psychological, social and cultural factors that influence exposure and/or health outcomes.
- Apply risk assessment and management strategies to environmental and occupational hazards.
- Employ the paradigms of environmental and occupational health (nature and sources of hazards; exposure, risk assessment and outcomes measures; susceptibility, culture, behavior and disparities) to assess and design studies of environmental and occupational health implications.

The PhD program requires a minimum of 90 semester credit hours (SCH) post-baccalaureate degree and is offered on a full time or part-time basis. Any graduate credits post-baccalaureate, including master's degree courses may be applied to coursework outlined within the PhD degree plan. A student may apply up to 42 SCH of previously taken graduate level courses toward the completion of the Ph.D. coursework (Advanced Standing). All such courses are subject to approval by the Academic Advisor and the PhD Program Committee.

PhD Core Courses	EOHS Concentration Required	PhD Culminating Experience
BIOS 5300 Biostatistics for Public Health I	EOHS 5331 Environmental & Occupational Sampling and Analysis Methods	EOHS 6000 PhD Comprehensive Examination
EOHS 5300 Environmental Health	EOHS 5350 Environmental & Occupational Toxicology	EOHS 6395 Doctoral Dissertation (12 SCH)
EPID 5300 Principles of Epidemiology	BIOS 6314 Applied Categorical Data Analysis	PhD Portfolio
HMAP 5300 Intro to Health Management and Policy	EOHS 5340 Exposure and Risk Assessment	
BACH 5300 Theoretical Foundations of Individual & Community Health	EOHS 6300 Environmental Health Determinants	
BIOS 5310 Biostatistics for Public Health 2	EOHS 6391 Advanced Topics in Environmental and Occupational Health Sciences	
BIOS 6300 Applied Statistical Methods for Data Analysis	EPID 6300 Intermediate Epidemiology for Public Health Practice	
HMAP 6360 Ethical Issues in Public Health		
PHED 6118 Seminar in Public Health Research		
PHED 6220 Scientific and Grant Writing		
PHED 6321 Pedagogy in Public Health		
PHED 6314 Methods for Public Health Studies		

**\*EOHS Electives-24 semester credit hours with no more than 15 semester credit hours at the 5000 level with 9 semester methods based semester credit hours. Advisor approval must be provided for all electives.**

