

## Office of Student & Academic Services

3500 Camp Bowie Blvd., EAD-716 Fort Worth, TX 76107 Phone: 817-735-2401 Toll-Free: 877-868-7741

> Fax: 817-735-2619 sph@unthsc.edu

## Doctor of Philosophy in Public Health Sciences Epidemiology 2011-2012 Academic Year

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 in epidemiology prepares students contemplating a career as scientists employed in academia, research institutions, or in research units within industry or other agencies and organizations. The program is comprehensive, with a strong emphasis on epidemiologic methodology, theory, and practice. This broad and rigorous training will fully equip students with the skills they need to be engaged in conducting cutting-edge epidemiologic research within the many areas of public health. Upon completion of the PhD in Public Health Sciences degree with a concentration in Epidemiology, the student will have demonstrated proficiency in the following competencies:

- Describe the theory underlying epidemiological methods,
- Comprehend and apply epidemiologic methods to solve a variety of public health problems, and
- Conduct primarily etiologic or other analytic and descriptive research studies, through appropriate formulation of a health problem, and the collection, assimilation, analysis, interpretation, and dissemination of data on human populations and the physical, chemical and biologic environment.

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.

Concentration-specific courses \* will vary depending upon already-completed coursework of the applicant.

Public Health Sciences Core Courses Concentration Core & Elective Courses * Dissertation Total						
Public Health Sciences Core Courses (33 SCH)						
BIOS	5300	Biostatistics for Public Health I	3 SCH			
EOHS	5300	Environmental Health	3 SCH			
EPID	5300	Principles of Epidemiology	3 SCH			
HMAP	5300	Introduction to Health Management & Policy	3 SCH			
SABS	5300	Theoretical Foundations of Individual & Community Health	3 SCH			
BIOS	5310	Biostatistics for Public Health II	3 SCH			
BIOS	6300	Applied Statistical Methods for Data Analysis	3 SCH			
HMAP	6360	Ethical Issues in Public Health	3 SCH			

PHED	6118	Seminar/ Grand Rounds in Public Health Research	1 SCH			
PHED	6220	Scientific and Grant Writing	2 SCH			
PHED	6321	Pedagogy in Public Health	3 SCH			
PHED	6310	Public Health Research Methods	3 SCH			
Concentration Core Courses (39 SCH) *						
BIOS	6314	Applied Categorical Data Analysis	3 SCH			
BIOS	6318	Clinical Trials & Survival Analysis	3 SCH			
EOHS	5342	Biomarkers in Environmental Epidemiology	3 SCH			
EPID	5310	Intermediate Epidemiology	3 SCH			
EPID	5312	Survey Methodology	3 SCH			
EPID	5313	SAS & Data Management	3 SCH			
EPID	5314	Applied Data Analysis in Epidemiology	3 SCH			
EPID	5318	Chronic Disease Epidemiology	3 SCH			
EPID	5320	Infectious Disease Epidemiology	3 SCH			
EPID	5391	Topics in Epidemiology: Secondary Data Analysis	3 SCH			
EPID	6310	Advanced Methods in Epidemiology I	3 SCH			
EPID	6312	Advanced Methods in Epidemiology II	3 SCH			
EPID	6316	Molecular Epidemiology	3 SCH			
Concentration Electives (6 SCH) *						
(no moi	re than 3	SCH at the 5000 level)				
BIOS	6312	Applied Methods of Survey Sampling	3 SCH			
EOHS	5340	Exposure & Risk Assessment	3 SCH			
EOHS	5350	Environmental & Occupational Toxicology	3 SCH			
EOHS	6324	Genomics & Public Health	3 SCH			
EOHS	6348	Spatiotemporal Environmental Health Modeling	3 SCH			
EPID	6314	Experimental Methods in Epidemiology	3 SCH			
EPID	6318	Epidemiologic Surveillance	3 SCH			
EPID	6320	Social Epidemiology	3 SCH			
EPID	6322	Nutritional Epidemiology	3 SCH			
EPID	6324	Cancer Epidemiology	3 SCH			
EPID	6326	Occupational Epidemiology	3 SCH			
EPID	6399	Doctoral Independent Study in Epidemiology	1-3 SCH			
PHED	6391	Advanced Topics for Public Health	1-3 SCH			
Dissertation – 12 SCH						

<sup>\*</sup> Course substitution may be made with the approval of Academic Advisor.

PHED 6395 Doctoral Dissertation (3 SCH x 4)

12 SCH