

PhD in PUBLIC HEALTH SCIENCES

Academic Year 2014-2015

Epidemiology

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 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:

PhD Core Competencies:

- | |
|---|
| <ul style="list-style-type: none">• Research Theories: synthesize historical, contemporary, and emerging theories and paradigms of significance to public health. |
| <ul style="list-style-type: none">• Critical Analysis: Critically evaluate the strengths and weaknesses of existing research evidence and identify significant gaps in knowledge. |
| <ul style="list-style-type: none">• Research Methodology: Comprehend, design and apply relevant and advanced research methods based on rigorous standards of evidence. |
| <ul style="list-style-type: none">• Scientific Communications: Develop professional skills in scientific and grant writing, oral communication, and teaching. |
| <ul style="list-style-type: none">• Ethics: Uphold the highest ethical standards in all professional endeavors, including the design and implementation of research and the participation of human subjects. |
| <ul style="list-style-type: none">• Discovery and Translational Theory: Conduct investigative research, including areas that facilitate the translation and application of discovery to practice. |

Concentration Competencies:

- | |
|---|
| • Describe the theory underlying epidemiological methods, |
| • Comprehend and apply epidemiologic methods to solve a variety of public health problems |
| • 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.

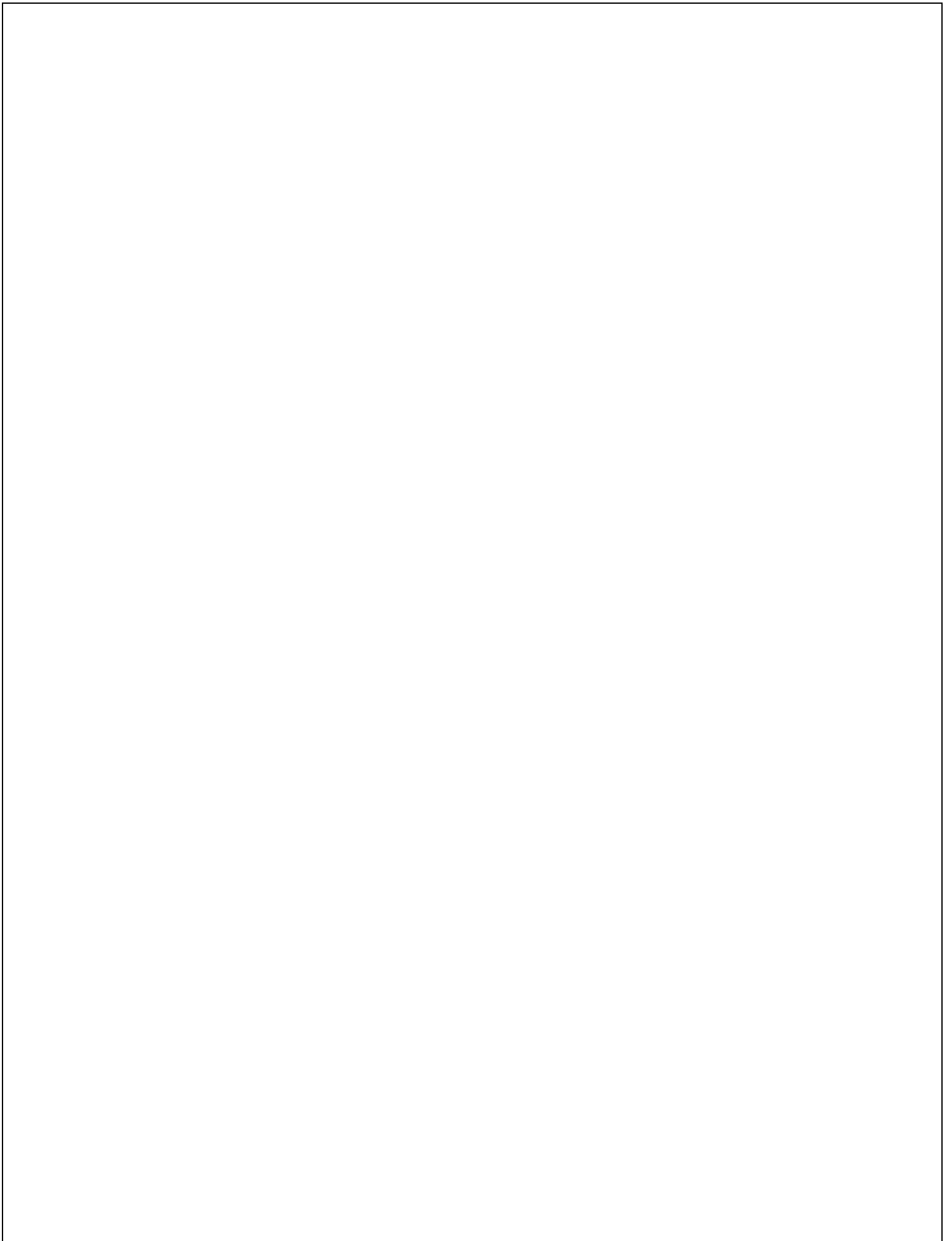
Coursework

Course	Credit Hours	Course was taken...
PhD Core		
BACH 5300 Theoretical Foundations of Individual and Community Health	3	
BIOS 5300 Principles of Biostatistics	3	
EPID 5300 Principles of Epidemiology	3	
HMAP 5300 Introduction to Health Management & Policy	3	
EOHS 5300 Environmental Determinants of Health	3	
BIOS 5310 Intermediate Biostatistics	3	
BIOS 6300 Advanced Methods in Biostatistics	3	
HMAP 6360 Ethical Issues in Public Health	3	
PHED 6118 Methods for Public Health Studies II	1	
PHED 6220 Scientific and Grant Writing	2	
PHED 6321 Pedagogy in Public Health	3	
PHED 6314 Methods for Public Health Studies I	3	
Required		
EPID 5310 Intermediate Epidemiology	3	
EPID 5312 Survey Methodology	3	
EPID 5313 Introduction to Data Management & Statistical Computing	3	
EPID 5314 Applied Data Analysis in Epidemiology	3	
EPID 5318 Chronic Disease Epidemiology	3	
EPID 5320 Infectious Disease Epidemiology	3	
BIOS 6314 Categorical Data Analysis	3	
BIOS 6324 Survival Analysis	3	
EPID 6328 Topics in Epidemiology: Secondary Data Analysis	3	
EPID 6310 Advanced Methods in Epidemiology I	3	
EPID 6312	3	

Advanced Methods in Epidemiology II		
EPID 6316 Molecular Epidemiology	3	
BIOS 6326 Methods of Clinical Trials	3	

Culminating Experience		
EPID 6000 PhD Comprehensive Examination	0	
EPID 6395 Doctoral Dissertation	12	
PhD Professional and Academic Development	0	
Electives		
1.		
2.		

*EPID Electives-6 semester credit hours with no more than 3 semester credit hours at the 5000 level.
Advisor approval must be provided for all electives.



PhD in Public Health Sciences Advanced Standing Request Form

Student Name: _____ **Student ID Number:** _____ **Date Submitted:** _____

A student may request up to 42 semester credit hours earned in relevant graduate level coursework from other U.S. accredited graduate institutions toward the 90 semester credit hours required for the PhD Program.

UNTHSC Course you request Advanced Standing for:	Course taken at another university	University Name	Semester/Year	Semester Credit Hours/Grade Received	Date Syllabus Submitted to Academic Services
Example: BIOS 5300: Biostatistics for Public Health 1	STATS 6000: Statistics for Health Services	University of Public Health	Spring 2013	3 SCH/A	5/14/2014

Department Chair Signature: _____ **Advisor Signature:** _____
Office of Academic Services Signature: _____ **PhD Committee Chair Signature:** _____