

PHD IN ENVIRONMENTAL SCIENCES: ENVIRONMENTAL DISEASE PREVENTION TRACK

The PhD in Environmental Sciences is a minimum of 48 semester credit hours and offers in-depth didactic and research training for students who want to focus their careers in academic, governmental, or other research institutions, and/or in high-level policy/regulatory positions. The Environmental Disease Prevention Track will provide students experience in identifying and measuring disease agents in various environments, and opportunities to develop ways to mitigate associated public health risks.

Special Entrance Requirements

Applicants to the PhD program should have a prior MS or equivalent degree in Environmental Health Sciences or a related field from an accredited institution of higher education. In addition, applicants are expected to have successfully completed coursework in calculus, organic chemistry, physics, and biological sciences. For more information, see the Admissions section (<https://catalog.uth.edu/public-health/admissions/>).

Course of Study

The following courses are required for a PhD in Environmental Science, Environmental Disease Prevention Track:

Code	Title	Hours
Required for all School of Public Health Students		
PH 101	Foundations of Public Health ¹	0
Leveling Courses ²		
0		
PH 1700L	Intermediate Biostatistics	
PHM 2110L	Public Health Ecology & the Human Environment	
PH 2175L	Toxicology I: Principles of Toxicology	
PHM 2612L	Epidemiology I	
Major Courses		
PHD 2105L	Environmental and Occupational Health Sciences Doctoral Seminar ³	2
PHD 2106L	Introduction to Doctoral Research Methods in Environmental and Occupational Health Sciences	2
PH 2245	Fundamentals of Industrial Hygiene	4
Environmental Disease Prevention Track Courses		
PHD 2135L	Risk Analysis: Principles and Practice	3
PH 2177	Toxicology II: Toxic Agents and the Environment	3
PH 2926	Fundamentals and Applications of GIS	3
PHD 2155	Environmental Sampling Analysis	4
PH 2150	Air Environment	3
	or PHD 2230L Water Environment	
Minor in Epidemiology		
PH 2615L	Epidemiology II	3
PH 2710L	Epidemiology III	3
Select one of the following: 3		
PHWD 2108L	Applied Epidemiological Analysis	
PHD 2360L	Occupational Epidemiology	
PHD 2362L	Environmental Epidemiology	

Person-Centered Well-Being Breadth

PHD 2845L	Nutritional Epidemiology	3
Select one of the following: 3		
PH 2735L	Physical Activity and Health: Epidemiology and Mechanisms	
PH 5400	Physical Activity Assessment & Surveillance	
PH 5401L	Physical Activity & Public Health Practice	
Select one of the following: 3		
PH 2780L	Genetic Epidemiology	
PH 2815L	Genetics and Human Disease	
PH 2970L	Foundations of Public Health Genetics	
Select one of the following: 3		
PH 1241	Disability and Public Health	
PHD 3922	Economic and Social Determinants of Health	
PH 5220	Gender and Leadership	

Dissertation

PHD 9999	Dissertation Research	3
Total Hours		48

¹ Online, not-for-credit course

² Academic credits from leveling courses do not count towards the total required number of credits for the degree program.

³ Taken twice

For a sample course of study, see the PhD in Environmental Science, Environmental Disease Prevention Track degree planner (https://web.sph.uth.edu/student-forms/Academic_Requirements/Degree%20Programs%20&%20Planners/Planner.PhD.EOHS_EDP.2024-2025.docx).