

**University of South Florida, College of Public Health  
Department of Environmental and Occupational Health**

**PhD: Environmental & Occupational Health**

In addition to the overall **Doctor of Philosophy** degree competencies, graduates with a concentration in **Occupational Health** will be able to:

1. Demonstrate general knowledge of public health in the context of environmental factors, occupational exposures, and related health outcomes including personal risk factors;
2. Demonstrate knowledge of the history of environmental and occupational health;
3. Interpret literature regarding environmental and occupational health and understand the limitations and strengths of the research presented;
4. Conduct discipline-specific literature reviews to assess current issues and develop research questions;
5. Demonstrate special knowledge in a specific area of interest in occupational health;
6. Articulate research needs for new methods and improvement of existing methods;
7. Formulate substantive research questions in occupational health;
8. Design and execute a feasible research plan to address specific gaps in the state of knowledge in occupational health;
9. Understand study design and data structure, and be able to interpret results;
10. Conduct research responsibly with an understanding of scientific integrity with respect to data collection, analysis, interpretation, and reporting;
11. Perform all research ethically with respect for the protection of human participants;
12. Communicate effectively with other scientists and the public;
13. Collaborate with researchers in other disciplines;
14. Prepare manuscripts presenting the results of research;
15. Present research at professional conferences and seminars;
16. Engage in lifelong learning regarding occupational health;
17. Provide leadership in occupational and public health improvement at the local, state, national and international levels.

Association between courses and the competencies for  
**Doctor of Philosophy degree with a concentration in Occupational Health**

Courses	Competencies																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Doctoral level courses (13 credits required)</b>																	
PHC 7931 Advanced Interdisciplinary Seminar in Public Health (3 credits required)	√	√	√									√				√	√
PHC 7103 Environmental Epidemiology (example suggestion)*	√		√						√				√				
PHC 7935 Analytical Chemistry Methods (example suggestion)*	√				√												
PHC 7935 Environmental Modeling (example suggestion)*	√		√						√				√				
Advanced biostatistics course (3 credits required)*	√		√						√				√				
Courses for concentration area (12 credits required)*																	
Elective Courses*	√		√														
Directed Research			√	√	√						√		√				
Dissertation (18 credit minimum)			√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Evidence of teaching proficiency*		√										√					
Tools of Research (2 areas required)*	√		√						√								
Department Research Seminar attendance (e.g. PHC 6930 Public Health Seminar: ERIC)	√	√										√				√	√