CLINICAL INVESTIGATION, PHD

Overview

The PhD in Clinical Investigation program is to train clinicians for careers as leaders in academic medical research in a way that advances our understanding of the diagnosis, screening, treatment and prognosis of clinical conditions and promotes evidence-based changes to clinical practice. Through this program, graduates will learn to effectively and efficiently design, implement, analyze, and interpret clinical research to improve human health and improve clinical practice.

Program Competencies

Upon completion of the program, the graduate should be able to:

1. Appraise the rigor and reproducibility of clinical research in public health and clinical medicine.
2. Compose impactful and innovative clinical research questions that are informed by existing literature and a comprehensive conceptual framework.
3. Design high-quality epidemiologic and/or translational studies.
4. Manage a clinical research study in line with ethical and regulatory standards.
5. Perform statistical analysis of data from clinical research studies.
6. Effectively communicate scientific findings from clinical research studies to professionals and the lay public.
7. Develop a grant proposal for the conduct of a clinical research study.

Requirements

The PhD in Clinical Investigation requires 48-49 credits that include:

Course ID	Title	Credits
PhD Foundational Courses		
SPHL 6020	Foundations in Public Health	3
SPHL 6060	Epidemiology for Public Health	3
SPHL 6050	Biostatistics for Public Health	3
EPID 6230	Computer Packages for Epidemiology	3
EPID 6420	Clinical Epidemiology	3
EPID 6340	Clinical and Translational Research Methods	3
INTD 6010	Responsible Conduct of Research	0-1
or BMSP 7990	Independent Study	
PhD Core Courses		
EPID 7120	Epidemiologic Methods II	3
EPID 7130	Observational Epidemiology	3
BIOS 6040	Intermediate Biostatistics	3
BIOS 7060	Regression Analysis	3
BIOS 8350	Clustered and Longitudinal Data Analysis	3
EPID 6350	Implementation Science in Public Health	3
EPID 7170	Clinical Trials: Design, Conduct & Interpretation	3
MSCR 7090	Grant Writing	3
EPID 8990	Doctoral Independent Study	3
Elective		3
Thesis		
Total Credit Hours		**48-49**