# Department of Epidemiology

## Fall 2018 Course Offerings

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### PHC 6001: Principles of Epidemiology in Public Health

**Format:** In Residence  
**Instructor:** Catalina Lopez-Quintero, MD, PhD  
**Credits:** 3  
**Grading Scheme:** Letter  
**Tuesdays, 10:40a-12:35p or 1:55p-3:50p**  
**Prerequisites:** None.

This course provides and understanding of epidemiologic methods frequently used to study disease patterns in community and clinic-based populations. Course topics include distribution and determinants of health-related states or events in specific populations and application to control of health problems.

### PHC 6003: Epidemiology of Chronic Diseases and Disability

**Format:** Online  
**Instructors:** David S. Sheps, MD, MSPH, and Krishna Vaddiparti, PhD, MPE, MSW  
**Credits:** 3  
**Grading Scheme:** Letter  
**Online**  
**Prerequisites:** PHC 6001 and PHC 6052 or PHC 6050, or permission from the instructor.

This course is an overview of the epidemiology of chronic diseases and disabilities prevalent in various populations; it includes the introduction of contemporary methods for surveillance, including risk factors, etiology, and changes over time.

### PHC 6016: Social Epidemiology

**Format:** In Residence  
**Instructor:** Krishna Vaddiparti, PhD, MPE, MSW  
**Credits:** 3  
**Grading Scheme:** Letter  
**Thursdays, 8:30a-11:30a**  
**Prerequisites:** PHC 6000, PHC 6001, and PHC 6410, or permission from the instructor.

This course explores the social determinants of population health, including acute and chronic disease outcomes, and health behavior. The course introduces methodological approaches to the field of social epidemiology with specific attention to measurement issues.

### PHC 6517: Public Health Concepts in Infectious Diseases

**Format:** In Residence  
**Instructor:** Diana Rojas Alvarez, MD, PhD  
**Credits:** 3  
**Grading Scheme:** Letter  
**Mondays, 10:40a-11:30a; Wednesdays, 9:35a-11:30a**  
**Prerequisites:** PHC 6001 and PHC 6002, or permission from the instructor.

In this course, students will learn to analyze the epidemiologic research methods used to obtain evidence of emergence of infectious diseases, transmission pathways, prevention strategies, and the range of factors that influence the severity of individual health outcomes; will be able to systematically examine research evidence related to a number of relevant emerging and existing infectious diseases of the 21st century; and will design an original research study to answer a specific research question.
PHC 6711: Measurement in Epidemiology and Outcomes Research
Format: In Residence
Instructor: Ting-Yuan (David) Cheng, PhD
Credits: 3 Wednesdays, 12:50p-3:50p
Grading Scheme: Letter COM CG-56
Prerequisites: PHC 6001 and PHC 6050 or equivalent, or permission from the instructor.
This course focuses on principles of measurement in epidemiologic/health outcomes research studies, particularly in the use of primary data collection studies. Special emphases include: reliability and validity studies; ROC curves; reducing and adjusting for measurement error; questionnaire design and interviewing methods; use of record resources (e.g., medical records, administrative data); and measurement using biomarkers, environmental measures, and molecular methods. Measurement in outcomes research in infectious diseases, physical activity, neuropsychology, psychopathology, addictions, and environmental epidemiology will be examined as examples in the course.

PHC 6937: Hospital Epidemiology
Format: Blended
Instructor: Cindy Prins, PhD, MPH, CIC, CPH
Credits: 3 Tuesdays, 11:45a-1:40p
Grading Scheme: Letter HPNP G-108
Prerequisites: At least two epidemiology courses (PHC 6001 and PHC 6000) and two biostatistics courses (PHC 6052 and PHC 6053). Students also need to have familiarity with basic microbiology terms and techniques, so other pre-requisites for this course are PHC 6370, PHC 6002, PHC 6517, or an undergraduate- or graduate-level microbiology course (with instructor approval). This course will discuss major topics in Hospital Epidemiology related to research on the control and prevention of healthcare-associated infections. Topics will be presented through online lectures in-class discussions of journal articles and CDC Guidelines, and through experiential learning with visits to UF Health Shands.

PHC 6937: Maternal and Child Health Epidemiology
Format: In Residence
Instructor: Deepthi Varma, PhD, MPhil, MSW
Credits: 2 Thursdays, 12:50p-2:45p
Grading Scheme: Letter HPNP G-110
Prerequisites: PHC 6001, or permission from the instructor.
This is a 2-credit course offered on campus to introduce Maternal and Child Health Epidemiology concepts to Master’s and Doctoral level students. This course is designed to provide a graduate level understanding of how epidemiological principles can be applied to maternal and child mortality and morbidity.

PHC 7595: Introduction to Molecular Epidemiology
Format: In Residence
Instructor: Lusine Yaghjyan, MD, MPH, PhD
Credits: 3 Tuesdays, 9:35a-12:35p
Grading Scheme: Letter HPNP G-110
Prerequisites: PHC 6001 and knowledge of basic concepts in epidemiology and study designs, or permission from the instructor.
This course will explore theoretical concepts in molecular epidemiology and use of biomarkers in epidemiologic studies. Class topics include: basics of molecular epidemiology, potential uses and limitations of biomarkers, sample collection and storage, issues in epidemiologic study design and analysis, and discussion of specific research examples involving molecular markers.
PHC 7901: Epidemiology Literature Review and Critique (Journal Club)

Format: In Residence
Instructor: Linda B. Cottler, PhD, MPH, FACE
Credits: 1
Grading Scheme: S/U

Fridays, 9:35a-10:25a
CTRB 4240C

Prerequisites: Graduate student standing, or permission from the instructor.

This course will prepare students to perform peer-review and to think critically. In weekly class discussion sessions, students will review peer-reviewed, published research studies that demonstrate innovative or faculty epidemiologic content or methods. Feedback will be given by student peers and faculty.

PHC 7934: Seminar I: Epidemiology Past, Present, and Future

Format: In Residence
Instructor: Lusine Yaghjian, MD, MPH, PhD
Credits: 2
Grading Scheme: Letter

Fridays, 10:40a-12:35p
HPNP 1101

Prerequisites: PhD standing, or permission from the instructor.

The principal goals of this doctoral seminar include becoming familiar with major programs of research in epidemiology, discussing findings and implications of classic/prominent epidemiologic studies, reviewing the strengths and weakness of major epidemiologic study designs, and applying knowledge of epidemiologic study design to students’ formulation of their own research studies.