| Course Code | Course Title                                      | Format          | Instructor                          | Credits | Grading Scheme | Grading Scheme Details | Prerequisites                                                                                           | Description                                                                                                                                                                                                 |
|-------------|--------------------------------------------------|-----------------|-------------------------------------|---------|----------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHC 6000   | Epidemiology Methods I                           | In Residence    | Lusine Yaghjyan, MD, MPH, PhD       | 3       | Letter         | COM C1-4               | PHC 6001 and PHC 6050 or PHC 6052, or permission from the instructor. This course provides an understanding of the methods of epidemiological study designs and their analyses, including issues of bias, confounding, and effect modification. The goal of this class is to provide a strong background in analytic reasoning and research design, study execution, analysis, and result interpretation. |
| PHC 6001   | Principles of Epidemiology in Public Health       | Online          | Kelly K. Gurka, MPH, PhD            | 3       | Letter         | Online                | None. This course is an introduction to epidemiology for students majoring in any aspect of the health sciences. This course presents the principles and methods of the epidemiological investigation of both infectious and non-infectious diseases. The purpose of this course is to equip students with the necessary knowledge and skills to explain the place of epidemiology in the general health thinking and to communicate and apply the basic principles of epidemiology. |
| PHC 6003   | Epidemiology of Chronic Disease                  | In Residence    | Thomas A. Pearson, MD, MPH, PhD     | 3       | Letter         | HPNP G-110             | 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 6194   | Spatial Epidemiology                              | In Residence    | Hui Hu, PhD                        | 3       | Letter         | Location TBD          | PHC 6000, PHC 6011, PHC 6052, and PHC 6053 (or equivalent), or permission from the instructor. This course introduces the concepts and methods of spatial epidemiology. Students will gain hands-on experience in Geographic Information Systems (GIS) and spatial data analyses. Recent developments in location intelligence applied to healthcare and public health research will also be introduced. |
PHC 6937: Core Seminar in the Translational Science of Alcohol and HIV Infection
Format: In Residence
Instructor: Robert Leeman, PhD
Credits: 1
Grading Scheme: Letter
Mondays, 10:40a-11:30a
FLG 275
Prerequisites: None.
In addition to alcohol and HIV research, this course will also cover several professional development topics including the academic job search process, non-academic jobs and “How to be a professor.” Seminars will be led by a rotating group of faculty-level experts, primarily from here at UF, but with some external speakers.

PHC 6937: Introduction to Mixed Methods Research
Format: In Residence
Instructor: Deepthi Varma, PhD, MPhil, MSW
Credits: 3
Grading Scheme: Letter
Mondays, 8:30a-11:30a
Location TBD
Prerequisites: PHC 6001 Principles of Epidemiology in Public Health and PHC 6000 Epidemiology Methods I (or equivalent research methods coursework). Students with no prior instruction in epidemiology but with methodological coursework from another related discipline may be admitted with permission from the instructor.
This 3-credit, on-campus course will introduce mixed methods research concepts to master’s and doctoral level students. This course focuses on the design and implementation of research that combines qualitative and quantitative data collection, and will discuss the purpose of “mixing methods” and ways to integrate qualitative and quantitative data.

PHC 6937: Topics in Precision Medicine and Public Health Informatics
Format: In Residence
Instructor: Mattia Prosperi, MEng, PhD
Credits: 1
Grading Scheme: Letter
Every other Tuesday, 10:40a-12:35p
HPNP G-110
Prerequisites: PHC 6000, PHC 6011, and a SAS course, or equivalent graduate statistical and quantitative research courses in any relevant department, or permission from the instructor.
This course blends methodological, practical, and translational aspects of computational epidemiology. The course is not intended to provide statistical training, but rather to teach students to recognize suitable computational approaches to handle data. The practice sessions will acquaint students with statistical and machine learning software capable of processing big data.

PHC 7000: Epi Seminar II: Critical Evaluation, Research Proposals, and Methods
Format: In Residence
Instructor: Krishna Vaddiparti, PhD, MPE, MSW
Credits: 2
Grading Scheme: Letter
Tuesdays, 8:30a-10:25a
CTRB 4217
Prerequisites: PHC 6001 and PHC 6000, one semester of biostatistics, and PhD student status in epidemiology, or permission from the instructor.
This course is taken in the second year of the epidemiology PhD program curriculum. The seminar series is designed to introduce students to a range of advanced epidemiologic concepts and research methods to help PhD students advance their dissertation ideas and obtain the skills needed for a PhD in epidemiology.
PHC 7007: Cancer Epidemiology
Format: In Residence
Instructor: Volker Mai, PhD, MPH
Credits: 3
Mondays, 11:45a-12:35p; Wednesdays, 10:40a-12:35p
Grading Scheme: Letter
HPNP G-110
Prerequisites: PHC 6001 and PHC 6050 or PHC 6052, or permission from the instructor.
This course is designed to help students develop the interdisciplinary skills required for evaluating various existing and hypothetical public health interventions aimed at reducing the burden of cancer in the US and worldwide. The course will familiarize students with various exposures associated with the risk of developing cancer with emphasis on a population perspective. While a focus will be on opportunities for prevention; we will explore cellular mechanisms contributing to the development of various cancers and describe associated pathologies. Cancer epidemiology is taught in a combined lecture and discussion format.

PHC 7017: Advanced Epidemiologic Methods III
Format: In Residence
Instructor: Xinguang (Jim) Chen, MD, PhD, FACE
Credits: 3
Fridays, 9:35a-12:35p
Grading Scheme: Letter
HPNP G-109
Prerequisites: GMS 6800 and GMS 6810, or permission from the instructor.
This advanced course will focus on the application of six advanced analytical and modeling methods through lectures, actual data analysis, student presentation and discussion to expand the methodology inventory by introducing advanced and new statistical and modeling methods to address measurement, descriptive, comparative, associative and causal relations in modern epidemiology.

PHC 7038: Psychiatric Epidemiology
Format: In Residence; Online (CPE Only)
Instructor: Catherine W. Striley, PhD, MSW, ACSW, MPE
Credits: 3
Thursdays, 12:50p-3:50p
Grading Scheme: Letter
Location TBD
Prerequisites: PHC 6000 and PHC 6011, or permission from the instructor.
This advanced epidemiology methods course in Psychiatric Epidemiology will cover concepts, history, measures, methods and analytic techniques to study the risks, prevalence and incidence, course, comorbidities and consequences of major mental disorders (mood and anxiety disorders, schizophrenia, personality disorders, alcohol and drug abuse and dependence). Psychiatric epidemiology studies in general and specific populations internationally will be discussed for their methods, measures and findings.

PHC 7065: Critical Skills in Data Manipulation for Population Science
Format: In Residence; Online (CPE Only)
Instructor: Hui Hu, PhD
Credits: 2
Mondays, 12:50p-2:45p
Grading Scheme: Letter
HPNP G-108
Prerequisites: PHC 6052 and PHC 6000 or the equivalent and PhD student status, or permission from the instructor.
This course focuses on providing basic knowledge and skills needed in data manipulation for population science. Included will be: data context and concepts; relational databases; data collection and extraction; Parallel manipulation of massive datasets; NoSQL systems and concepts. The course is designed for advanced students to learn the "code of best practice" for data engineering in population science.
**PHC 7902: Scientific Writing for Peer Reviewed Publications for Population Science**

**Format:** In Residence  
**Instructor:** Linda B. Cottler, PhD, MPH, FACE  
**Credits:** 1  
**Grading Scheme:** Letter  
**Mon., 6:00p-7:30p**  
**CTR 4240C**

**Prerequisites:** Graduate student status, 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 each other’s work and bring work to edit and share. Feedback will be given by student peers and the course instructor. The principal goals of this Epidemiology Writing Circle are to: 1) improve the student's academic writing style, 2) write, complete, and submit papers – with at least one as a first author, and 3) edit colleague’s manuscripts, regardless of topic area.