Department of Epidemiology
Summer 2022 Course Offerings

PHC 6001: Principles of Epidemiology in Public Health

Format: Online Asynchronous

Instructor: Krishna Vaddiparti, PhD, MPE, MSW

Term: Summer C Online Asynchronous

Credits: 3

Grading Scheme: Letter

Prerequisites: None.

Epidemiology methods frequently used to study disease patterns in community and clinic-based populations. Includes distribution and determinants of health-related states or events in specific populations and application to control of health problems.

PHC 6002: Epidemiology of Infectious Diseases

Format: Online Asynchronous

Instructor: Jerne Shapiro, MPH

Term: Summer C Online Asynchronous

Credits: 3

Grading Scheme: Letter

Prerequisites: PHC 6001 and PHC 6052 or PHC 6050, or permission from the instructor.

Epidemiology, prevention, and control of infectious diseases affecting local, national, and global community health; epidemiologic methods used in disease surveillance and measures used in slowing or preventing spread of disease.

PHC 6009: Biology and Epidemiology of HIV/AIDS

Format: Online Asynchronous

Instructor: Robert L. Cook, MD, MPH, and Veronica Richards, MPH, CPH

Term: Summer C Online Asynchronous

Credits: 3

Grading Scheme: Letter

Prerequisites: None.

Examining the biological process by which HIV causes infection and AIDS, including the physiologic and cellular processes involved in HIV infection and treatment. Developing skills in finding and interpreting current epidemiologic data on HIV/AIDS, including risk factors, comorbid health issues, special populations, and health outcomes. Overview of HIV prevention strategies and their effectiveness. Special emphasis on epidemiology of HIV/AIDS in the rural south.

PHC 6011: Epidemiology Methods II

Format: In Person

Instructor: Catalina Lopez-Quintero, MD, PhD

Term: Summer B Mondays and Wednesdays, 9:30a-1:45p

Credits: 3 HPNP 1101 & 1102

Grading Scheme: Letter

Prerequisites: PHC 6000, PHC 6052, and PHC 6053, or permission from the instructor.

Analytic methods in epidemiology with a foundation in applied epidemiological analysis and experience in peer-review productivity based on secondary data analysis.

PHC 6041: Landmarks in Psychiatric Epidemiology

Format: Online Asynchronous

Instructor: Catherine W. Striley, PhD, MSW, ACSW, MPE

Term: Summer C Online Asynchronous

Credits: 2

Grading Scheme: S/U

Prerequisites: None.

Landmarks in psychiatric epidemiology are reviewed with an emphasis on student discovery of studies with enduring value.

PHC 6937: Computational Multi-omics

Format: In Person

Instructor: Huaizhen Qin, PhD

Term: Summer A

Credits: 1 HPNP G-108

Grading Scheme: Letter

Prerequisites: PHC 7594, PHC 6000, PHC 6011, and PHC 6050C or PHC 6052, or instructor permission. Students must be familiar with R scientific programing languages. This course assumes fundamental competency in genetic epidemiology and statistical genetics vocabulary and principles.

This course will offer master's and PhD students with an updated introduction to computational multi-omics. It will introduce the computational approaches to unravel the multi-omics (i.e., genetics, epigenetics, gene expression, and metabolite) mechanisms of a complex human disease. Algorithms and packages for both unrelated individuals and extensive pedigrees in various populations will be inspected. The course will cover population and pedigree based whole-genome gene mapping, mixed effects Cox regression analyses, and surrogate variable analyses in multi-omics experiments. For illustration purpose, public and simulated omics and phenotypic data sets will be examined.

PHC 6937: Core Seminar in the Translational Science of Alcohol and HIV Infection

Format: Online Synchronous

Instructor: Robert Leeman, PhD

Term: Summer A Thursdays, 11:00a-12:15p

Credits: 1

Grading Scheme: Letter

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 7083: Computational Epidemiology in Population Science

Instructor: Mattia Prosperi, MEng, PhD, and Simone Marini, PhD

Term: Summer A Tuesdays, 10:00a-12:30p and 1:30p-4:00p

Credits: 2 CTRB 4240C

Grading Scheme: Letter

Prerequisites: PHC 6000, or permission from the instructor.

Provides students training in computational models for epidemiology, enabling them to formulate and test appropriate modeling hypotheses for large scale and heterogeneous study designs.

PHC 7427: Ethics in Population Science

Format: In Person

Instructor: Catherine W. Striley, PhD, MSW, ACSW, MPE

Term: Summer A — Thursdays, 11:00a-3:15p

Credits: 2 — COM C2-33

Grading Scheme: S/U

Prerequisites: Advanced degree or PhD candidacy, or permission of the instructor.

Covering federally mandated topics in the Responsible Conduct of Research: Data Acquisition, Management, Sharing, Ownership; Conflict of Interest/Commitment; Human Subjects; Animal Welfare; Research Misconduct; Publication Practices and Responsible Authorship; Mentor/ Trainee Responsibilities; Peer Review; and Collaborative Science. This ethics course is for those enrolled in research intensive graduate programs.

PHC 7594: Genetic Epidemiology

Format: In Person

Instructor: Jinying Zhao, MD, PhD

Term: Summer A — Mondays and Wednesdays, 2:00p-4:45p

Credits: 3 — HPNP G-108

Grading Scheme: Letter

Prerequisites: PHC 6000, PHC 6011, and PHC 6050, or permission from the instructor.

This course covers fundamental concepts and principles in genetic epidemiology. At the completion of this course, students are expected to critically discuss literature, design and conduct basic genetic analysis, and interpret research finding. Advanced methods course for PhD program.

PHC 7727: Grant Writing for Population Health Research

Format: TBD

Instructor: Linda B. Cottler, PhD, MPH, FACE, and Volker Mai, PhD, MPH

Term: Summer C — Fridays, 9:30a-12:15p

Credits: 2 — Location TBD

Grading Scheme: Letter

Prerequisites: PHC 6011, or permission from the instructor.

This course provides practical instruction in the grant writing process with a specific focus on National Institutes of Health (NIH) procedures. It provides students with experience in writing a full grant application and in reviewing others' grant applications. It also contains a mock grant review session to assist students in understanding the process and content of grant review.