

PUBLIC HEALTH

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (<https://one.ufl.edu/soc/>)

Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.

Department Information

Website (<https://publichealth.pphp.ufl.edu/>)

CONTACT

1225 Center Drive

HPNP BUILDING

GAINESVILLE FL 32610

Map (<http://campusmap.ufl.edu/#/index/0749>)

Curriculum

- Artificial Intelligence in Public Health and Healthcare Certificate
- Public Health
- Public Health Minor

Courses

HSA 3111 U.S. Health Care System 3 Credits

Grading Scheme: Letter Grade

Overview of organization, delivery and financing of health services in the U.S. Topics include health professionals, health care facilities, financing of health services, managed care and current health policy issues.

Prerequisite: (BSC 2007 or BSC 2005 or BSC 2010) and PSY 2012 and STA 2023 and (health science or communication sciences and disorders or public health majors or health science or public health minors).

HSC 3057 Research Methods and Issues in Health Science 3 Credits

Grading Scheme: Letter Grade

Emphasizes four aspects of research: understanding research principles, evaluating journal articles, applying research findings to clinical settings and designing programmatic evaluation projects.

Prerequisite: HSC 3502 and Health Science or Public Health majors or minors.

HSC 3502 Survey of Diseases and Disability 3 Credits

Grading Scheme: Letter Grade

Overview of medical and psychosocial aspects of chronic diseases and disability.

Prerequisite: Health science or communication sciences and disorders or public health majors, or health science minor.

HSC 4558 Survey of Diseases and Disabilities 2 3 Credits

Grading Scheme: Letter Grade

Overview of medical and psychosocial aspects of chronic diseases, including issues of disability management. This required course, combined with HSC 3502, covers all of the major disabling conditions.

Prerequisite: HSC 3502; Health Science, Public Health, Communication Sciences and Disorders majors/minors only

PHC 2100 Introduction to Public Health 3 Credits

Grading Scheme: Letter Grade

Overview of public health as a multifaceted field. Includes discussion of contemporary public health challenges with input from discipline experts.

Attributes: General Education - Social Science

PHC 3440 Global Public Health 3 Credits

Grading Scheme: Letter Grade

Examines global health threats, health production, and their relationship with social processes from an interdisciplinary perspective. Also examines how social and technical innovations provide new opportunities to address global health.

Prerequisite: PHC 4101 and Public Health major with Junior standing or higher.

PHC 3603 Critical Issues in Public Health 3 Credits

Grading Scheme: Letter Grade

Learn how to analyze, compare and contrast the most current complex public health issues in society. Students will comprehend and discuss the influence of personal bias, scientific evidence, and societal trends on a variety of public health issues.

Prerequisite: (BSC 2005 or BSC 2010) and PSY 2012 and STA 2023 AND (junior or senior majoring in Health Science, Communication Sciences and Disorders or Public Health or minors).

PHC 3621 Ethics in Artificial Intelligence: Who's Protecting Our Health 3 Credits

Grading Scheme: Letter Grade

Explores the ethical challenges of using artificial intelligence in Healthcare and the practice of Public Health. Students will examine predictive models used for making important health decisions, addressing factors that contribute to trustworthy artificial intelligence in health, and analyzing potential for bias, risk, and social inequity in assessing and delivering health and public health interventions.

Prerequisite: PHC 3793.

PHC 3793 Higher Thinking for Healthy Humans: AI in Healthcare and Public Health 3 Credits

Grading Scheme: Letter Grade

Covers history, foundational concepts and methods on artificial intelligence (AI), focusing on public health and healthcare applications, including hands-on practice on graphical/highlevel AI software. The course neither provides advanced statistical/machine learning training nor programming.

Prerequisite: STA 2023 or equivalent.

PHC 4024 Applied Epidemiology 3 Credits

Grading Scheme: Letter Grade

Principles and methods of epidemiological investigation focusing on both infectious and noninfectious diseases. Emphasizes outbreak investigations, field epidemiology and epidemiology careers.

Prerequisite: HSC 3057, HSC 3502, HSC 4558, PHC 4101, and Health Science and Public Health majors/minors only.

PHC 4031 One Health and Emerging Infectious Diseases 3 Credits

Grading Scheme: Letter Grade

A pivotal elective in the One Health Program and the Bachelors of Public Health degree; introduces the concept of One Health in the context of how disease-causing microbes or pathogens emerge and the critical drivers of microbial evolution.

Prerequisite: Gen Ed Biology; academic level junior, senior and graduate or instructor approval

PHC 4094 Introduction to Biostatistics for Health Science and Public Health 3 Credits

Grading Scheme: Letter Grade

Methods and public health applications for analysis of variance, correlation, simple linear regression, multiple linear regression, nonparametric and distribution-free statistical methods, and some basic concepts about survival analysis. Public health applications using statistical software. Writing data analysis reports.

Prerequisite: STA 2023.

PHC 4101 Public Health Concepts 3 Credits

Grading Scheme: Letter Grade

Introduces the basic tenets, applications and foci of public health, including integrating public health with other health professions.

Prerequisite: (BSC 2007 or BSC 2005 or BSC 2010) and PSY 2012 and STA 2023.

PHC 4117 Public Health Management Leadership 3 Credits

Grading Scheme: Letter Grade

Provides knowledge relevant to leading public health organizations while effectively managing and motivating employees. Includes organizational behavior and theories to examine management, leadership, and application of skills in delivering public health programs.

Prerequisite: HSA 3111 and HSC 3502 and HSC 4558 and PHC 4101 and Public Health major.

PHC 4309 Climate Change, the Environment, and the Future of Public Health 3 Credits

Grading Scheme: Letter Grade

As a complex and dynamic issue, climate change is impacting a vast number of environmental, socio-ecological, and human systems, including public health. This course unpacks key social, environmental, global health, justice, policy, and economic issues, as well as approaches to mitigation and adaptation at multiple scales

Prerequisite: BSC 2005 or BSC 2010 and minimum of Junior standing or instructor approval.

PHC 4320 Environmental Concepts in Public Health 3 Credits

Grading Scheme: Letter Grade

Surveys major environmental health topics by examining sources, routes, media, and health outcomes associated with biological, chemical, and physical agents in the environment. Introduces the economic and legal frameworks associated with environmental health issues and public health.

Prerequisite: PHC 4101.

PHC 4792 Data Visualization in the Health Sciences 3 Credits**Grading Scheme:** Letter Grade

Students will learn the foundations of information visualization and sharpen their skills in understanding, evaluating, and presenting AI driven public health data. Throughout the semester, we will primarily use R to explore concepts in graphic design, storytelling, data wrangling and plotting, biostatistics, and artificial intelligence.

Prerequisite: STA 2023 Introduction to Statistics or equivalent.**PHC 4930 Special Topics in Public Health 1-6 Credits****Grading Scheme:** S/U

Exploration of a general or a specific area of public health.

Prerequisite: junior or senior standing.**PHC 4943 Service Learning Practicum 3 Credits****Grading Scheme:** Letter Grade

Covers development of the role of a public health and human services provider in an agency setting.

Prerequisite: HSC 3057 and PHC 4101 and Public Health major with senior standing.