PHC: Public Health Concentration Courses

Courses

PHC 2082 Informatics and Your Health
3 sh (may not be repeated for credit)

Multi-disciplinary exploration of the nature of information - how it is represented, processed, shared, preserved, and protected in tools and applications directly linked to your health and the health of our planet. Identifies enduring principles; examines impacts on individuals and society; provides practice with a variety of digital technologies and data collection strategies; addresses interpreting results of and concerns in human subject research. This course helps students develop integral professional and technical skills, including presentation of ideas through written and verbal communication, within an informatics framework. Students will have the opportunity to focus on a particular technology company or issue as a mechanism for developing critical thinking and teamwork skills.

PHC 4101 Essentials of Public Health
3 sh (may not be repeated for credit)

Course teaches basic terms and definitions of public health and the factors leading to disease causation as well as disease prevention. Students study programs and policies that effect healthcare in a positive manner and apply basic principles of scientific reasoning with the use of available data and information. Topics introduced serve as a basis for enhancing the participants’ ability to critically evaluate current trends in healthcare and develop programs and policies in an analytical manner.

PHC 4109 Diseases in Human Populations
3 sh (may not be repeated for credit)

An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling.

PHC 4140 Public Health Planning and Analysis
3 sh (may not be repeated for credit)

This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to simulate student interest in other public health courses and program offerings. Graduate students will be assigned additional work.

PHC 4340 Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)

An online-multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 5356; graduate students will be assigned additional work.

PHC 4341 Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)

Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 5355; graduate students will be assigned additional work.

PHC 4363 Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)

A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Permission is required. Offered concurrently with PHC 5351; graduate students will be assigned additional work.

PHC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHC 5050 Biostatistics for Public Health
3 sh (may not be repeated for credit)

This is a second course in biostatistics for students in the graduate Public Health program. The topics include descriptive statistics, probability, standard probability distributions, sampling distributions, point and confidence interval estimation, hypothesis testing, power and same size estimation, one and two-sample parametric and non-parametric methods for analyzing continuous or discrete data, simple linear regression, logistic regression and other multivariate methods. Students will use a statistical software package for data management and statistical analyses. This is a fully online course with its own office hours and discussions. STA 2023 or equivalent is a pre-requisite for this course (see UWF Catalog). It is important to have a good understanding of inferential statistics, such as confidence intervals and test of hypotheses (for two samples). Students must have completed STA 2023 or equivalent in college.
PHC 5102 Principles of Public Health
3 sh (may not be repeated for credit)
This course introduces students to the history of public health, the structure of the public health system, and the various sectors of public health practice. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public’s health. The course is also intended to stimulate student interest in other public health courses and program offerings.

PHC 5108 Monitoring and Evaluation in Global Health
3 sh (may not be repeated for credit)
Familiarizes students with different types of program evaluation, including needs assessment, formative research, process evaluation, monitoring of outputs and outcomes, impact assessment, and cost analysis. Students gain practical experience through a series of exercises involving the design of a conceptual framework, development of indicators, analysis of computerized service statistics, and development of an evaluation plan to measure impact. The course experimental, quasi-experimental, and non-experimental study designs, including the strengths and limitations of these designs in population and global health practice.

PHC 5123 Biological Basis of Public Health
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling.

PHC 5351 Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)
A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in healthcare, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Offered concurrently with PHC 4363; graduate students will be assigned additional work.

PHC 5356 Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)
An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5410 Social and Behavioral Sciences in Public Health
3 sh (may not be repeated for credit)
Covers behavioral and social science contributions to science disciplines, including psychology, sociology, and anthropology, will be reviewed and integrated with public health objectives and outcomes. Using a biopsychosocial framework, the role of social, psychological, and behavioral factors in health and illness are emphasized.

PHC 5442 Global Health
3 sh (may not be repeated for credit)
The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will get an overview of the determinants of health, and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will review specific topics related to the most important communicable and non-communicable diseases as well as issues related to food distribution, reproductive health and other global major health concerns with an important focus on low- and middle-income countries and on the health of the poor. We will also discuss cross-cutting global health issues such as poverty and equity, human rights and ethical issues in public health; globalization and health and complex emergencies.

PHC 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHC 6000 Epidemiology for Public Health Professionals
3 sh (may not be repeated for credit)
To enable the student to understand epidemiology as a discipline and how epidemiology, as the basic science of public health, provides information for disease prevention and treatment.

PHC 6003 Chronic Diseases Epidemiology
3 sh (may not be repeated for credit)
The course is designed to give the student current and comprehensive information on the epidemiology, etiology, pathogenesis, risk factors and preventive measures of common chronic diseases at the population level. The course will cover selected topics in chronic disease with an emphasis on disease occurrence in the United States, Florida and the current status of local research projects.

PHC 6005 Urbanization and Population Health
3 sh (may not be repeated for credit)
The course focuses on the impact of urbanization and the transmission of disease-causing organisms, as well as the interaction between human behavior and environmental changes on population health. Factors such as overcrowding, access to quality housing, modernized urban amenities, lifestyle choices and sanitation(WASH) contribute to the spread of disease in urban areas in developed and low-to-middle income countries.
PHC 6015  Epidemiological Research Designs and Methods
3 sh (may not be repeated for credit)
The course covers research design and methods commonly used in epidemiology and public health research. The course covers both quantitative and qualitative research designs, including, observational, quasi-experimental, and experimental designs used in epidemiological investigations. Methods for reliable and valid data collection and analysis will be covered. Common statistical methods for the analysis of public health data are discussed.

PHC 6150  Public Health Policy
3 sh (may not be repeated for credit)
The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organizations. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.

PHC 6194  GIS Applications in Public Health
3 sh (may not be repeated for credit)
An online course presenting an overview of geographic information systems for the analysis of public health data. Course imbeds learning how to use GIS software in the context of carrying out projects for visualizing and analyzing health-related data. Part of the Master of Public Health degree program.

PHC 6196  Applied Data Analysis in Public Health
3 sh (may not be repeated for credit)
This course provides an overview of computer applications software for public health and health-related data. Fundamentals of data collection, data mining, statistical analysis, interpretation, and reporting of results are covered. Students gain hands on experience in data management and analysis using real-world public health and health-related data. Enrollment in this course assumes a basic understanding of statistical reasoning and epidemiological experience.

PHC 6251  Disease Surveillance and Monitoring
3 sh (may not be repeated for credit)
Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States as well as in other developed and developing countries. Will focus on these fundamental processes and procedures which are utilized to investigate and track infectious and communicable diseases as well as non-infectious chronic diseases.

PHC 6300  Environmental Health
3 sh (may not be repeated for credit)
Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health. Credit may not be received in both PHC 6300 and PHC 6018.

PHC 6310  Environmental Toxicology
3 sh (may not be repeated for credit)
Environmental toxicology is the study of the effects of toxic substances on health and the environment. The student will recognize that human survival depends upon the well-being of other species and upon the availability of clean air, water, and food; and anthropogenic, as well as naturally occurring, chemicals can have detrimental effects on living organisms and ecological processes. Concepts to be covered include occurrence of toxicants, damage process and action of toxicants, factors affecting xenobiotic action, defense responses to toxicants, and others. Will also examine chemicals of environmental interest and how they are tested and regulated. Case studies and special topics will be examined.

PHC 6347  Aerospace and Occupational Toxicology
3 sh (may not be repeated for credit)
Part of the MPH program for military Residents in Aerospace Medicine.

PHC 6360  Accident Investigation and Risk Management
3 sh (may not be repeated for credit)
Accident Investigation & Risk Management includes an aerospace safety overview, biomechanics of impact, restraint systems, crew protection, and crew escape concepts, aviation and space vehicle crashworthiness, aerospace injury mechanisms, conduct of an accident investigation, forensic concepts, legal issues, and promoting prevention strategies to avoid future accidents. Students in MPH degree program, and need special permission from instructor.

PHC 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHC 6945  Internship in Public Health I
3 sh (may not be repeated for credit)
Prerequisite: PHC 6946
This course is an internship in a public health agency or setting. It is completed under the supervision of an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor. The student will work on a problem related to management, development or administration of a program in public health or related to research in public health. A written report on the internship experience is required, along with an oral presentation before a committee of MPH faculty. The course is graded on a Satisfactory / Unsatisfactory scale. Permission is required.

PHC 6946  Internship in Public Health II
3 sh (may not be repeated for credit)
This is the second of a two course sequence. In the second course the student develops a project report based on practical activities completed during PHC 6946: Internship in Public Health I and be making satisfactory progress in the course. This is done under the supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor. The student develops the report on the internship experience and presents the project report, including a virtual poster before a committee of MPH faculty. Students can only register for Internship II in the last semester of enrollment. The student must Graded on a satisfactory / unsatisfactory basis only.