

### **CPH 201 INTRODUCTION TO PUBLIC HEALTH. (3)**

This course provides the student with basic knowledge about the discipline of public health. After receiving a philosophical and political orientation to public health, students will begin to acquire functional knowledge of the strategies most often applied in public health practice. Key content areas (such as HIV prevention, maternal and child health, reducing obesity rates, and reducing tobacco addiction) will become focal points for the investigation of these strategies.

### **CPH 202 PUBLIC HEALTH THROUGH POPULAR FILM. (3)**

This course will provide students with an introductory understanding of public health concepts through critical examination of popular cinema and instruction in basic public health principles, disease principles, and behavioral and social interactions related to the movie topics. A combination of lectures, readings and film viewing will enable students to understand the relationship between behavioral, environmental, biological and other risk factors with disease, injury or other health outcomes. The effect of social, economic and health systems context will also be examined. In addition, students will learn to distinguish between fact and fiction with regard to the science and activities of public health as portrayed in cinema.

### **CPH 203 SEXUAL HEALTH. (3)**

This course will be an in-depth introduction to the relationship of sex and sexual behaviors to health and wellness.

### **CPH 309 HEALTH, HISTORY, AND HUMAN DIVERSITY. (3)**

Health care reform is often in the news, and everyone has an opinion on why the system is broken, how to fix it, who should have access to good medical care, under what circumstances, and what constitutes “good care.” This online, multi-format course will consider what it has meant to be a good patient or a good doctor at various points in U.S. history, who was included or excluded in each group, how medicine became professionalized, and how people have organized around health issues. Students will engage with primary sources, watch related films, interact with the professor during virtual “office hours,” and participate in online moderated discussions. (Same as GWS 309.)

### **CPH 310 DISEASE DETECTIVES: EPIDEMIOLOGY IN ACTION. (3)**

This course will outline the history of epidemiology as a science and examine its wide-ranging contributions to the fields of public health, medicine, and the social sciences. This course will focus on epidemiological methods to investigate health outcomes and identify associated and causative factors of disease in populations.

### **CPH 315 CHRONIC DISEASE EPIDEMIOLOGY. (3)**

This course is an introduction to the epidemiology of chronic diseases including but not limited to cardiovascular disease, cancer, and diabetes, with a focus upon chronic disease surveillance and risk factors. Prereq: CPH 310 or equivalent (with permission from instructor).

### **#CPH 318 GLOBAL CANCER EPIDEMIOLOGY. (3)**

This course applies and integrates the principles and tools of epidemiology to the study of cancer. The course includes discussions of the burden of various kinds of cancer across the United States and the world by age, gender, and race/ethnicity, the underlying biology behind the development of cancer in humans, cancer surveillance, and the epidemiology of various types of cancer by cancer site such as breast, lung, and colorectal cancers. The course also examines the major risk factors of cancer such as smoking, alcohol use, endogenous and exogenous hormones, viruses, environmental/occupational exposures, and diet. Prereq: CPH 310.

### **CPH 320 FUNDAMENTALS OF ENVIRONMENTAL HEALTH. (3)**

An overview of the physical factors that influence human health, including hazards from unsanitary water, polluted air, traumatic injury hazards, toxins, radiologic risks, and other features of the natural and human made environment that can kill, injure, maim, and cause disease in human populations. Special focus is given to understanding the relationships between biological, chemical, and other factors that produce unhealthy environments that sicken individuals throughout their lifespan. Additional topics include the important influence of environmental hygiene, restaurant inspections, occupational safety and health issues, clean water standards, air pollution regulations, and other laws and regulations that protect the health and safety of human populations. Prereq: BPH Majors only.

### **\*CPH 330 HEALTH ANALYTICS I. (3)**

CPH 330 focuses on applying methods for solving public health analytical problems. This course will build on the statistical principles and scientific reasoning introduced in introductory statistics courses, but will focus on the application of methods for categorical data analysis. Topics include data visualization, exploratory data analysis, summary statistics, statistical testing, estimation, confounding, and the use of regression models commonly encountered in public health. An emphasis on data analytic methods will also introduce students to the use of statistical software. Prereq: CPH 310 and BPH Majors only or permission of instructor.

### **CPH 350 INTRODUCTION TO HEALTH CARE ORGANIZATION AND POLICY. (3)**

This introductory course exposes students to the various components of the U.S. health care system and its history, current status, proposed policy solutions, and expanding focus on improving population health. The course begins by describing the contribution of health care to population health. Next, the course discusses how the organization of services influences health care access, quality, and efficiency. It follows with a review of the complexities of the organization of the health care system, including the inter-relationships between health care providers, health insurance and financing, and political forces. Prereq: ECO 201.

### **CPH 351 PREPARING FOR AN APOCALYPTIC EVENT: POPULATION HEALTH AND CRISIS MANAGEMENT. (3)**

Students enrolled in this course will participate in in-depth analyses of multiple large-scale disasters. This course will provide students with the knowledge necessary to participate in all phases of the crisis management process, as overseen by a health service organization. Case studies will be utilized heavily throughout this course and students will have the opportunity to engage in discussion with various health professionals from around Kentucky who engage in crisis management activities. Prereq: CPH 201 or permission of the instructor.

### **CPH 365 SPECIAL TOPICS IN PUBLIC HEALTH (Subtitle required). (3)**

This course provides focused coverage within domains of public health, including: Health Behavior; Epidemiology; Gerontology; Environmental Health; Health Services Management, and Biostatistics. A central goal of these special topics courses is to provide a public health context to material in a way that promotes applicability to undergraduate majors university-wide.

### **CPH 395 UNDERGRADUATE INDEPENDENT STUDIES IN PUBLIC HEALTH. (1-3)**

This course offers students the opportunity to independently promote learning in public health content areas and/or skills that are not covered by formal courses within the college. Students typically work with an individual faculty member to develop specialized or advanced knowledge or skills, or to identify, design and/or conduct research. Students must coordinate with a faculty member to complete a Prospectus for Research/Independent Study prior to registering for CPH 395. This course may be repeated for a maximum of 6 semester hours. Prereq: A minimum of 60 credit hours completed or junior level standing and permission of instructor.

### **CPH 410 EPIDEMIOLOGY IN THE WEB OF CAUSATION: PEOPLE, PLACE, AND POLITICS. (3)**

This course will provide an interdisciplinary introduction to applications of epidemiology in the context of political, community, social, and behavioral influences on health. Epidemiology is the study of patterns of diseases, injury, and other indicators of health in human populations. The course will review principles and introduce novel methods used in epidemiologic research. Students will learn approaches to collecting data about sensitive health behaviors, examining social networks, integrating information from interviews and focus groups, and collecting spatial data using a smart phone application. These topics will be explored using a range of case examples, including infectious disease, humanitarian crises, sexual health, substance abuse, obesity, and others. Prereq: Introduction to Public Health (CPH 201) and Disease Detectives (CPH 310) or equivalents (instructor permission required) should be taken before or at least concurrently with this course.

### **CPH 423 HEALTH OF KENTUCKIANS. (3)**

This course provides an overview of the determinants, factors, and remedies to the traditionally poor health status of Kentuckians. The course focus is on population health of the Commonwealth, with an emphasis on data, trends and solutions to illness, death and disability. Other topics include health rankings, vital statistics and demographic factors. The comparison of Kentucky's population health status to the US average and to other states is presented, plus strategies to improve population health in the Commonwealth. Additional topics include the relationship between Kentucky's demographic, economic, environmental, and education characteristics and their impact on health.

### **CPH 440 FOUNDATIONS OF HEALTH BEHAVIOR. (3)**

This course will provide students with an overview of how the social and behavioral sciences contribute to primary prevention in the rapidly expanding field of health behavior. Emphasis will be placed on theory-driven approaches that are supported by empirical investigations. Students will acquire a working knowledge of foundational theories used in public health practice as well as the ability to measure key theoretical constructs. The course includes an overview of public health issues in the United States. The course also includes training regarding the translation of research findings into public health practice. Prereq: BPH Majors only.

**CPH 441 THE SMOKING GUN: TOBACCO AND THE PUBLIC'S HEALTH. (3)**

This course will provide a theoretical, cultural and economic rationale for the role of tobacco smoking related to the overall health of US populations in the United States and abroad. This course will examine trends in tobacco smoking from the 1960's to present day and how social and political forces have both directly and indirectly undermined the current public health agenda—to reduce, minimize, and eventually eradicate tobacco related chronic disease and death worldwide. Students will acquire the necessary tools to identify the scientific literature on smoking and disease through traditional published literature, tobacco websites, and national data sets. Prereq: Junior or Senior undergraduate in good academic standing, recommendation of advisor or permission of instructor.

**CPH 450 MANAGING HEALTH ORGANIZATIONS TO IMPROVE POPULATION HEALTH. (3)**

This course will introduce students to a number of foundational concepts related to leadership and management, specifically in the realm of health organizations (e.g., local and state health departments, hospitals, community clinics, etc.). In particular, this course will explore the areas of managing human and non-human resources, and improving agency performance. Students will have the opportunity to interact with managers and organizational leaders from a variety of health service agencies. Prereq: CPH 201 or permission of the instructor.

**\*CPH 470 PUBLIC HEALTH CAPSTONE. (3)**

This course will provide students with training in the practice of conducting literature reviews and in the process of synthesizing reviewed materials into a coherent and timely manuscript. Literature reviews will be focused on core areas within public health such as the prevention of cardiovascular disease, obesity, cancer, and diabetes. Students will draw upon previous coursework in public health to fully understand one clearly defined area of scientific inquiry regarding the prevention of disease at the population level. Using their past acumen of acquired knowledge, students will acquire the cognitive skills needed to analyze and synthesize literature into a simplified and cohesive manuscript that offers practical and evidenced-based conclusions for public health practitioners. They will also acquire professional skills needed for academic presentation of review findings to audiences of public health peers and professionals. Prereq: BPH Majors only plus CPH 310, CPH 320, CPH 330, CPH 350 and CPH 440. This course is a Graduation Composition and Communication Requirement (GCCR) course in certain programs, and hence is not likely to be eligible for automatic transfer credit to UK.

**\*CPH 472 PUBLIC HEALTH PROFESSION AND PRACTICE. (3)**

This course familiarizes students with the practice of public health, introducing them to the various settings and arenas in which public health professionals work. Through guest lectures and discussions with professionals in the field, students gain exposure to the roles and responsibilities of the public health workforce as well as its interconnection with other professions including medicine, nursing, pharmacy, dentistry, engineering, social work, and communications. Students will assess their own interests, skills, and personality to explore and describe their own career goals. Prereq: BPH Majors only plus CPH 310, CPH 320, CPH 330, CPH 350 and CPH 440.

**\*CPH 476G A SICK WORLD: GLOBAL PUBLIC HEALTH IN THE EARLY 21ST CENTURY. (3)**

This course provides students with basic knowledge about the issues of global public health and its importance to all peoples of the globe. After receiving an introduction to the principles and goals of global public health, students will begin to acquire functional knowledge of the theoretical and methodological underpinnings of global public health practice. Key content areas such as health determinants, issues of health, education, and poverty, ethical and human rights concerns, the impact of culture on global public health, the burden of disease on the global human population, and other pertinent global public health topics will become focal points for class discussion. This course will emphasize theory-driven empirical investigation of key behavioral issues that influence the health and well-being of people around the globe. Case studies of global public health issues will be utilized. Prereq: CPH 440 and BPH Majors only or by permission of the instructor.

**CPH 535 DATABASES AND SAS PROGRAMMING. (3)**

Students will learn how to construct and maintain databases with applications to public health. They will also learn how to program in SAS, the leading statistical analysis system. SAS skills include report writing, MACRO writing, and Programming using SAS Intranet. Lecture, two hours; laboratory, two hours per week. Prereq: STA 291 or equivalent.

**CPH 551 COMPARATIVE HEALTH SYSTEMS. (3)**

An overview of healthcare system structure in selected countries with attention to their developmental history, financing, and delivery infrastructure.

**CPH 561 INSECTS AFFECTING HUMAN AND ANIMAL HEALTH. (3)**

Discussion of arthropod parasites and disease vectors. Topics include an overview of disease transmission and public health, epidemiology, vector biology, important arthropod groups and their control. Prereq: 3 credits of basic biology (BIO 103 or BIO 148 or equivalent) or permission of instructor. (Same as BIO/ENT 561.)

### **CPH 565 SPECIAL TOPICS IN PUBLIC HEALTH: (Subtitle required). (3)**

This course provides focused coverage within domains of public health, including, but not limited to: Biostatistics; Epidemiology; Gerontology; Health, Behavior & Society; Health Management & Policy; and Preventive Medicine and Environmental Health. A central goal of these special topics courses is to provide a public health context to material in a way that promotes applicability to undergraduate and graduate students university-wide.

### **CPH 580 BIOSTATISTICS I. (3)**

CPH 580 covers univariate statistical methods commonly encountered in public health studies. This includes descriptive statistics, hypothesis testing, paired and unpaired t tests, ANOVA, contingency tables, log rank test, regression and correlation. Prereq: MA 109 or higher. (Same as STA 580.)

### **\*CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION. (3)**

An introduction to the health care delivery system in the United States, including its composition, functioning, the interrelationships of organizations and professional groups within the system in various settings, health care terminology, and major problems and issues in the delivery of health services. Prereq: College of Public Health graduate program enrollment or permission of instructor.

### **CPH 601 ENVIRONMENTAL HEALTH. (3)**

An introduction to the theory and practice of assessing, correcting, controlling, and preventing environmental health hazards that may adversely affect the health of current and future generations. Prereq: Undergraduate chemistry and biology, or permission of instructor. (Same as ES 620.)

### **CPH 603 BIOSTATISTICS CONCEPTS AND APPLICATIONS IN PUBLIC HEALTH. (3)**

This course covers topics relating to applications of biostatistics in public health. It provides a conceptual introduction to statistical methods commonly used in public health practice. Topics include data visualization, summary statistics, statistical testing, estimation, confounding, and an introduction to regression (linear, logistic, proportional hazards). Prereq: MA 111 or equivalent.

### **CPH 604 FOUNDATIONS OF HEALTH BEHAVIOR. (3)**

This course will demonstrate how changes in health behavior can and do impact population-level indicators of morbidity and mortality. Students will acquire the necessary tools to identify priority needs for health promotion, design health programs, and to implement and evaluate these programs. Students will be able to make clear linkages between health promotion practices and the overarching goals of public health. Selection and design of strategies will be achieved through an understanding of theory-based approaches that have been widely applied in health promotion research. The course will also introduce students to various methods that can be used to plan, measure, and evaluate health promotion programs. Prereq: Admission to MPH program or permission of instructor.

### **CPH 605 EPIDEMIOLOGY. (3)**

This is an initial graduate level course in the principles of epidemiology and applications in preventive medicine and environmental health. The course consists of lectures and informal discussions. Principles and methods of epidemiologic research with a focus on issues of study design and analysis will be presented. Prereq: Graduate student in good standing in the MPH program, MSPH program, or community health nursing, or consent of instructor.

### **CPH 608 PUBLIC HEALTH CAPSTONE. (3)**

To be successful in the MPH degree program and the profession, students are expected to demonstrate excellence in communication skills both orally and in writing. The 'manuscript' format for the capstone project is intended to familiarize students with the rigors of preparing manuscripts for professional journals. This course provides course credit for students who successfully complete the MPH capstone project and oral final examination. Prereq: MPH students only.

### **CPH 609 PUBLIC HEALTH PRACTICUM. (3 or 6)**

The public health practicum is designed as an integrative experience in the workplace. The practicum is an opportunity to apply classroom theories and methods under the guidance of an experienced public health practitioner with faculty oversight. Prereq: Admission to MPH program or permission of instructor.

### **CPH 610 INJURY EPIDEMIOLOGY AND CONTROL. (3)**

The epidemiological basis for understanding the distribution and determinants for traumatic injury and poisonings including both intentional and unintentional events. Topics include sources of data, methodological approaches to studying injuries, evaluation of injury interventions and the link between epidemiology and public health policy impacting injuries. Prereq: PM 620 and/or permission of instructor.

### **CPH 611 ADVANCED EPIDEMIOLOGY. (3)**

This course provides specialized epidemiologic content and method designed to meet the research and practice needs of health professionals. Practice-based problem sets and hands-on computer assignments will complement this seminar-oriented course, focusing on the role of epidemiology in the prevention of disease and injury. Prereq: CPH 605 or consent of instructor. (Same as PM 621.)

### **CPH 612 INFECTIOUS/EMERGING DISEASES EPIDEMIOLOGY. (3)**

The theory/concepts of infectious diseases epidemiology, such as epidemic modeling expostulated through a systematic study of the more recent emerging diseased. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 613 MOLECULAR EPIDEMIOLOGY, CANCER PREVENTION AND CONTROL. (3)**

This course consists of didactic lectures, journal clubs, and small group round table discussions related to the principles of underlying biomarker discovery and development for cancer prevention and control. The overarching goal of this course will be to assess how biomarkers are developed and used for the risk assessment, early detection, diagnosis, prognosis, and theragnosis of cancer. Prereq: CPH 605 or consent of instructor.

### **CPH 614 MANAGERIAL EPIDEMIOLOGY. (3)**

This course applies and integrates the principles and tools of epidemiology to the decision-making process in health care management. Prereq: Enrollment in a Public Health degree program and CPH 605, or consent of instructor.

### **CPH 615 CANCER EPIDEMIOLOGY. (3)**

This course applies and integrates the principles and tools of epidemiology to the study of cancer. The course includes discussion of the burden of various kinds of cancer across the United States and the world by age, gender, and race/ethnicity, the underlying biology behind the development of cancer in humans, cancer surveillance, the epidemiology of various kinds of cancer by category of major risk factors such as human behavior (e.g. smoking and alcohol use), endogenous/exogenous hormones, viruses, environmental/occupational, and diet, and sources of data and methods for evaluating cancer screening, measuring the impact of risk factors, determining the incidence of cancer and cancer clusters, measuring patterns of care, and understanding the determinants of survival. Prereq: CPH 605 or consent of instructor.

### **CPH 617 ENVIRONMENTAL/OCCUPATIONAL EPIDEMIOLOGY. (3)**

A study of work-related and environmental exposures and hazards associated adverse health outcomes. Integrating the fields of occupational and environmental epidemiology. Prereq: Enrollment in a Public Health degree program and CPH 605/PM 620 or consent of instructor.

### **CPH 618 EPIDEMIOLOGY OF AGING. (3)**

This course introduces the application of epidemiologic methods to the study of older persons. Prereq: Enrollment in a Public Health degree and CPH 605/PM 620 Intro to Epidemiology and GRN 650, or consent of instructor. (Same as GRN 618.)

### **#CPH 619 EPIDEMIOLOGY OF THE OPIOID EPIDEMIC. (3)**

This course will provide an interdisciplinary and contemporary overview of the epidemiology of substance use and public health approaches to reducing harms related to substance use (e.g., HIV, hepatitis C, overdose). The course will also introduce novel methods used in epidemiologic research on substance use, including strategies for participant recruitment and collection of sensitive behavioral data; interwoven with this content will be discussions of the ethical considerations for research involving people who use drugs. The course will focus predominantly on heroin and nonmedical use of prescription opioids, but will also discuss issues surrounding cocaine, crack, methamphetamine, nonmedical use of other prescription drugs, hallucinogens, synthetic drugs, and other emerging substances. These topics will be explored using a range of approaches, including readings, documentaries, and discussions with guest lecturers involved in epidemiologic research on substance use, public health practice, and/or who are in recovery from substance use. Prereq: Graduate student or consent of instructor.

### **CPH 620 OCCUPATIONAL AND ENVIRONMENTAL HEALTH II. (3)**

CPH 620 addresses advanced theories and practices of identifying, assessing, and controlling occupational and environmental hazards that may adversely affect the health of communities and working populations. The course emphasizes harmful effects of non-chemical hazards, such as radiation, noise, hypoxia, and physical agents that lead to morbidity and mortality. However, evaluation and control measures will cover many types of hazardous exposures, including those from chemical exposures.

### **CPH 622 TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH. (3)**

This course provides an overview of chemical agents within the environment, their interaction with the human organism, and resultant public health implications. The goal of this course is to utilize toxicological information to create, understand, and explain control strategies that protect and improve public health. Prereq: CPH 601.

### **CPH 623 PUBLIC HEALTH BIOLOGY. (1)**

Public Health Biology is a 1 credit course offered over five weeks that will introduce students to some of the basic terminology and concepts of human health.

### **\*CPH 630 BIOSTATISTICS II. (3)**

Students will learn statistical methods used in public health studies. This includes receiver operator curves, multiple regression, logistic regression, confounding and stratification, the Mantel-Haenzel procedure, and the Cox proportional hazards model. Prereq: STA 570, CPH 603, STA 580/CPH 580, or equivalent. (Same as STA 681.)

### **CPH 631 DESIGN AND ANALYSIS OF HEALTH SURVEYS. (3)**

Students will learn design and analysis issues associated with well-known national health surveys, including reliability and validity of measurements, instrument validation, sampling designs, weighing of responses, and multiple imputations. Students will learn how to use statistical software to analyze data from complex survey designs. Lecture, two hours; laboratory, two hours per week. Prereq: STA 580 or equivalent.

### **CPH 632 FUNDAMENTALS OF CLINICAL RESEARCH. (3)**

This course is intended to lay the foundation for the more advanced study necessary for a clinical research investigator; and, will cover the concepts of clinical research design and implementation with an emphasis on clinical trials. This course is intended to be a springboard and to complement the more advanced curricula in Epidemiology and Biostatistics, by providing concepts that will aid the student in patient-oriented investigation. Some medical knowledge is preferable for the successful completion of this course. Prereq: CPH 605 or permission of instructor.

### **CPH 636 DATA MINING IN PUBLIC HEALTH. (3)**

This course concerns statistical techniques for and practical issues associated with the exploration of large public health data sets, the development of models from such data sets, and the effective communication of one's findings. Prereq: STA/CPH 580 and CPH 535, or graduate program status in Ph.D. Statistics or Ph.D. Epidemiology/Biostatistics.

### **CPH 640 WOMEN'S HEALTH. (3)**

This course will cover a variety of women's health topics including substance abuse, violence against women, nutrition, chronic diseases, reproductive and sexual health, and menopause. The course content will also emphasize the social, economic, environmental, behavioral, and political factors associated with women's health. We will address these content areas using a lifecourse perspective. The epidemiology, measurement and interpretation of these factors, and how these factors can be translated into interventions, programs, and policy, will be of major interest. Our focus will be primarily within the United States though we will touch on some aspects of global health. Prereq: Enrollment in the MPH program or permission of instructor.

### **CPH 641 PUBLIC HEALTH AND ANTHROPOLOGY. (3)**

Examination of how the perspectives and methods of anthropology can be and have been applied in public health research and intervention projects. Prereq: Enrollment in the MPH. or DrPH program, or consent of instructor.

### **CPH 642 ECOLOGICAL AND ADVANCED HEALTH BEHAVIOR THEORY. (3)**

Exploration of ecological model and other advanced theories of health behavior, based on theoretical and case-study literature. Contrasts individual-level and population-level approaches to health behavior. Prereq: CPH 604 or consent of instructor.

### **CPH 643 MEASURING HEALTH BEHAVIOR: INDIVIDUALS AND COMMUNITIES. (3)**

This course focuses on measurement, the key component of research. Topics include types of measurement; units of measurement; theory and measurement; reliability and validity; survey development; how and where to find “good” measures of health behaviors; and cultural considerations in measurement. The course relies upon the socioecological framework, acknowledging that health behaviors (as well as their determinants, consequences, and correlates) can and should be measured at all levels of society (e.g., individual, relational, community, and societal). The goal of the course is to train the student in how to measure health behaviors both responsibly and effectively. Prereq: Enrollment in the M.P.H. or Dr.P.H. program, or consent of instructor.

### **CPH 644 RURAL HEALTH DISPARITIES. (3)**

Through class meetings, course readings, and assignments, this course will provide students with a comprehensive overview of issues pertaining to health disparities of rural populations by examining current programs and policies, relevant literature, public health practice, and quantitative and qualitative research pertaining to the health and well-being of rural populations.

### **CPH 645 FOOD SYSTEMS, MALNUTRITION AND PUBLIC HEALTH. (3)**

Exploration of the role of the global food system in shaping food consumption and the implications for public health. Prereq: Enrollment in College of Public Health or consent of instructor.

### **CPH 646 SPECIAL TOPICS IN BEHAVIORAL HEALTH: (Subtitle required). (1-3)**

This course will engage students in readings, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 credit hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 647 RESEARCH METHODS FOR PUBLIC HEALTH. (3)**

This course provides the student with basic knowledge about the design and analysis of research in the field of health behavior. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health behavior 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data. Prereq: M.P.H., Dr.P.H., or Ph.D. in public health student or permission of instructor.

### **CPH 648 ELIMINATING RACIAL AND ETHNIC HEALTH DISPARITIES. (3)**

This course will help the learner understand differences in minority populations in order to help build and lobby for the infrastructure needed to prevent excess disease and death among underserved populations. A special emphasis in this class will be placed on understanding the role of culture in influencing the adaptation of health attitudes, practices, and behaviors. An additional focus will be placed on health status, current trends, and health indicators for special populations. Prereq: Graduate student in Public Health and others by instructor permission.

### **CPH 649 INDEPENDENT STUDIES IN HEALTH BEHAVIOR. (1-3)**

Designed for advanced students with research or special study interest in Behavioral Health. Students are under guidance and confer individually with faculty. May be repeated to a maximum of 6 credit hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 650 MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS. (3)**

This course teaches the theories and practice of administration as they are applied in public health settings. It addresses knowledge and applications of the functions of public health management and their relationship to organizational effectiveness. Prereq: College of Public Health major or by permission of instructor.

### **CPH 651 POPULATION HEALTH: MEASUREMENT, MANAGEMENT AND IMPROVEMENT. (3)**

This course explores strategies for measuring, managing and improving health status on a population-wide basis using insight from the social and behavioral sciences. Students will examine approaches for measuring population health and analyzing determinants of health and wellbeing using primary and secondary sources. Students will acquire an understanding of how multiple service delivery and financing systems interact in shaping health and wellbeing on a population level, and what policy and management strategies and incentives are available to align the medical, public health and social systems that support population health. Finally, the course will introduce students to an array of analytic tools and methodologies for evaluating the implementation and impact of population health improvement strategies. Prereq: Enrollment in the MPH program or permission of the instructor.

### **CPH 652 HEALTH FINANCE. (3)**

This course provides students an understanding of key principles of financial management as they are applied in healthcare organizations. Knowledge of key elements of strategic financial planning and their application in developing organizational plans and programs will be enhanced through the case study method. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **CPH 653 PUBLIC HEALTH LAW & POLICY. (3)**

Overview of public health law with emphasis on topics and materials used by public health practitioners, as well as the use of law to advance a public health agenda. Prereq: Graduate status or approval of instructor.

### **CPH 655 MANAGEMENT ACCOUNTING FOR HEALTHCARE ORGANIZATIONS. (3)**

This course introduces the use of management accounting techniques for decision making in healthcare organizations. Lectures, problems and cases will be used to focus on various types of healthcare organizations. Prereq: Enrollment in a College of Public Health degree program or MBA (or permission of instructor).

### **CPH 658 HEALTH ECONOMICS. (3)**

Health policies and market forces impact the U.S. health care system in terms of access, cost, and quality. This course provides the perspective that economic reasoning is a valuable critical thinking approach to social science inquiry and demonstrates how this perspective helps students understand health care policy and market issues. Prereq: Enrollment in a College of Public Health degree program or certificate program (or permission of instructor).

### **CPH 660 GIS AND PUBLIC HEALTH. (3)**

This course will introduce students to the Arc View Geographic Information System (GIS) to map and spatially analyze public health data. Prereq: Public Health graduate student or permission of instructor.

### **CPH 661 BIOETHICS FOR PUBLIC HEALTH PROFESSIONALS. (3)**

This course will engage students in readings, projects, and discussions to address controversial issues of bioethics for public health professionals. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 662 PUBLIC HEALTH RESPONSE TO TERRORISM, DISASTERS AND EMERGENCIES. (3)**

This course will focus on the public health concepts, history, methods, planning, and response preparedness to weapons of mass destruction, terrorism, natural and human-made disasters, and other health emergencies. Prereq: Enrollment in a Public Health degree program and CPH 605, or consent of instructor.

### **CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION. (3)**

This course is to be a practical application of the principles of health care organization to public health at the national, state, and local levels. Prereq: Health care organization course.

### **CPH 664 DESIGN AND ANALYSIS OF CLINICAL TRIALS. (3)**

This course will introduce the fundamental concepts used in the design of Phase I/IV clinical trials and statistical methodology associated with trial data analysis. Prereq: STA 570 or permission of instructor.

### **CPH 665 ETHICAL ISSUES IN CLINICAL RESEARCH. (3)**

Based on NIH guidelines for Responsible Conduct of Research, this course will present ethical and regulatory guidelines for conducting clinical research. Prereq: Participation in curriculum leading to Graduate Certificate in Clinical Research Skills, or permission of instructor. (Same as PHR 665.)

### **CPH 670 INTERDISCIPLINARY PROTOCOL DEVELOPMENT. (2)**

This course is designed to orient students to leadership and teamwork processes involved in clinical and translational research and to train students to function effectively in team settings. Students will be assigned to multidisciplinary teams with a designated principal investigator. Each team will be assigned to develop an integrated multidisciplinary grant application to address an assigned clinical research topic. Students are expected to apply their knowledge of effective scientific communication, responsible conduct of research, and methods and technologies of clinical and translational science to the grant application. The course will consist of four class periods. The first three classes will consist of an orientation to communication and the role of leadership and teamwork in multidisciplinary clinical and translational research. The final class period will be reserved for a teams organizational meeting. Supplemental team meetings are optional. Each team member will be required to complete an individual five-page research methods report that is integrated into a multidisciplinary research application addressing a clinical research topic assigned to the team under the direction of an assigned principal investigator. Prereq: Graduate standing.

### **CPH 672 EVIDENCE-BASED PUBLIC HEALTH PLANNING AND PRACTICE. (3)**

This course provides the student with knowledge and skills in evidence-based public health: applying scientific reasoning, systematic use of data and information systems, and appropriate behavioral science theory to the development, implementation, and evaluation of effective programs and policies in public health. The course will emphasize online data, tools, and other resources that support the evidence-based decision making process. Prereq: CPH 604 or permission of instructor.

### **CPH 680 FUNDAMENTALS OF HEALTHCARE QUALITY AND SAFETY. (3)**

This course introduces you to the broad discipline of health services systems with an emphasis on quality and patient safety. By the end of this course you will have a better understanding of the theory, methods, structures, and processes of health services, quality and patient safety and why the core areas of interest are so important in health care. Prereq: CPH 600 or permission of instructor.

### **CPH 681 LEGAL ASPECTS OF HEALTHCARE MANAGEMENT. (3)**

The course will familiarize students with the application of law to management issues in healthcare organizations. Skills addressed include terminology, legal reasoning, the tools of law, and topics specific to healthcare settings. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **CPH 682 QUANTITATIVE METHODS FOR HEALTHCARE MANAGEMENT. (3)**

This course is a survey of quantitative methods for healthcare managers. Specific content areas include problem selection, data collection, measurement, analytic techniques, and research design. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **CPH 683 OPERATIONS MANAGEMENT AND QUALITY IMPROVEMENT. (3)**

This course covers the basics of operations including management of productivity, quality, and inventory as well as process improvement, capacity and throughput analysis and benchmarking. Development of operational performance metrics and basics of both project management and supply chain management are also covered. The focus is on developing tools to support decision making under conditions of uncertainty, risk, and multiple objectives. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **\*CPH 684 HUMAN RESOURCES MANAGEMENT IN HEALTHCARE. (2)**

This course will examine concepts, methods, systems, and processes for planning and managing human resources in healthcare. It is designed for those aspiring in strategic leadership roles in complex healthcare organizations, rather than primarily for those seeking a specialized role in human resources. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **CPH 687 ORGANIZATION THEORY AND BEHAVIOR. (3)**

This course introduces the disciplines of organization theory and organization behavior and their application in healthcare organization management. Special attention is given to understanding the practice of administration in healthcare organizations, the skills needed for effective management, and evolving management approaches (i.e. Lean). Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

### **CPH 688 INTERNSHIP IN HEALTH ADMINISTRATION. (1-3)**

Managerial experience in a healthcare setting is an essential component of the health administration educational process. An administrative internship, also referred to as the internship, provides the student with the opportunity to put into practice the knowledge and skills learned in the classroom in healthcare organizations under the guidance of a senior healthcare administrator with faculty oversight. Prereq: Enrollment in MHA program.

### **CPH 691 SOCIAL DETERMINANTS OF POPULATION HEALTH. (3)**

The fundamental determinants of population health (often referred to as the social determinants of health) are grounded in the social, genetic, and physical environments and may influence multiple risk factors and health outcomes by directly shaping individual health behaviors and by shaping access to living conditions and goods and services such as health care and social resources. This course will examine the major categories of social determinants of population health and emerging strategies to address them. Prereq: Enrollment in the MPH program or permission of the instructor.

### **CPH 695 PUBLIC HEALTH PRACTICE THROUGH SERVICE LEARNING. (1-3)**

This course will provide students the opportunity to gain first hand public health experience by participating in projects in a community setting. Number of credit hours, associated contact hours, and assignments to be determined in consultation with the instructor. Prereq: Enrollment in a Public Health degree program and completion of the core curriculum, or consent of instructor.

### **CPH 698 OCCUPATIONAL SAFETY AND HEALTH: FIELD SURVEYS. (3)**

The course provides students with the opportunity to visit various work sites and industries in the Appalachian region. This course will provide students with onsite, direct experience recognizing hazards and evaluating control measures to reduce occupational health and safety risks. This is a cross-disciplinary course for graduate students in occupational safety, industrial hygiene, environmental health, occupational health nursing, ergonomics, injury prevention, agricultural health and safety, occupational epidemiology and occupational medicine. Prereq: CPH 620 Occupational Health.

### **CPH 701 CURRENT ISSUES IN PUBLIC HEALTH. (1)**

This seminar course will introduce M.S. and Ph.D. students to the critical role of public health in protecting, maintaining, and improving the health of the population. Specific emphasis will be directed to the “Ten Essential Functions of Public Health” through weekly lectures, readings, and writing assignments. While all five core areas of public health will be introduced. Prereq: Admission to College of Public Health M.S. or Ph.D. program.

### **CPH 709 GLOBAL HEALTH INTERNSHIP. (3)**

This course will consist of an internship in a foreign country, preferably in a resource-limited setting. Students will have both a University of Kentucky and a local mentor, and will develop a plan for participating in some type of health-related project or activity during a four-week period. A paper or presentation summarizing the key components of the internship experience will be submitted upon returning to Lexington. Prereq: Enrollment in the Graduate Certificate in Global Health Program, and completion of the course CPH 751, Introduction to Global Health, or approval from the Director of the certificate.

### **CPH 710 ADVERSE EVENTS IN HEALTHCARE: EPIDEMIOLOGY AND PREVENTION. (3)**

This course will focus on the epidemiology, history, methods, and ancillary laboratory tools used in the study and control of healthcare associated adverse events, including discussions of key concepts and theory, basic types of epidemiological investigations and study designs, and distinctive problems associated with specific risk factors. Adverse events will be discussed as components of patient safety and the quality of care.

### **CPH 711 CHRONIC DISEASE EPIDEMIOLOGY. (3)**

A survey course on the leading chronic diseases in the U.S., including cardiovascular disease, cancer and diabetes with focus on surveillance and risk factors. Prereq: Enrollment in a Public Health degree program, CPH 605/PM 620 Introduction to Epidemiology or consent of instructor.

### **CPH 712 ADVANCED EPIDEMIOLOGY. (3)**

This course provides students with the understanding of advanced issues in the design, analysis, and interpretation of epidemiologic studies. The course text and associated readings will focus on study designs and the methodologic approaches to addressing bias, confounding, and error in the design of population-based health research. The development of a systematic approach for evaluating evidence from epidemiologic studies as it relates to demonstrating causality will be emphasized. Focusing on study design, measures of associations, confounding, interaction, sources of bias and error, the student will gain an understanding of epidemiology and its role in the medical and public health sciences. Prereq: Enrollment in a public health degree program and CPH 605 or consent of instructor.

### **CPH 713 PHARMACOEPIDEMIOLOGY. (3)**

This course will provide an overview of the field of pharmacoepidemiology and its relationship to health care research. Various topics including methodology and analytical issues relevant to the conduct of pharmacoepidemiologic research will be covered. Time will also be spent reviewing existing papers in the field of pharmacoepidemiology. Prereq: CPH 605 and STA 580 or equivalent; may be concurrent. (Same as PPS 701.)

### **CPH 714 MATERNAL AND CHILD HEALTH INFORMATION AND DATA SYSTEMS. (3)**

This course will equip participants with basic skills in identifying, accessing, interpreting and utilizing U.S. maternal and child health data systems at the national and state level. Participants will learn the essential ways that secondary data sources inform public health practice and how to interpret and present information from these sources. They will also learn key skills in data interpretation, data linkage, working with small numbers, stratifying data by population sub-groups and examining trends over time.

### **CPH 715 PERINATAL EPIDEMIOLOGY. (3)**

This course will equip participants with basic skills in the field of perinatal epidemiology and its application in the field of Maternal and Child Health. Students will work with birth and death data using SAS, SPSS or STATA to gain experience in secondary data analysis; from initial data base organization and cleaning through descriptive analysis and interpretation of the content. Topics such as proper data coding, the use of prenatal indices and an introduction to data linkage will be included.

### **CPH 716 PROSEMINAR IN OCCUPATIONAL HEALTH AND SAFETY. (0-1)**

This course will provide students, in a seminar format for 6 sessions during the semester, presentations from occupational health and safety professionals from a variety of disciplines and experiences. The seminar is 2.5 hours long at each session. Knowledge regarding workplace exposures and related health outcomes will be provided. Students should acquire basic understanding of current topics in the fields of occupational medicine, nursing, safety, industrial hygiene, epidemiology, biostatistics, mining, and agriculture.

### **CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: (Subtitle required). (1-3)**

This course will engage in readings, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 719 INDEPENDENT STUDIES IN EPIDEMIOLOGY. (1-3)**

Designed for advanced students with research or special study interests in Epidemiology. Students are under guidance and confer individually with faculty. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 720 HEALTH OF AGRICULTURAL POPULATIONS. (3)**

Health of Agricultural Populations addresses the threats and hazards that impact the health, safety and productivity of farmers, members of farm families, hired farm workers, and others who live or work in agricultural environments, such as crop and livestock production, timber production and commercial fishing. This course offers analysis in selected issues of agricultural health and safety. Students will visit agricultural operation sites.

### **CPH 725 CLINICAL PREVENTIVE SERVICES. (3)**

Disease prevention and control have been recognized as more efficient and effective in extending the quality and quantity of human life. As a core part of the Preventive Medicine-Public Health Residency curriculum, this course will focus on up-to-date, clinically relevant information and cutting edge research results regarding clinical preventive medicine and public health issues. The primary focus of this course will be 1) evidence based preventive health care services, and 2) recommendations of the United States Preventive Services Task Force for screening and preventive health care services. Prereq: Permission of instructor.

### **CPH 728 SPECIAL TOPICS IN OCCUPATIONAL/ ENVIRONMENTAL HEALTH: (Subtitle required).**

**(1-3)**

This course will engage students in reading, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 729 INDEPENDENT STUDIES IN OCCUPATIONAL/ENVIRONMENTAL HEALTH.**

**(1-3)**

Designed for students with research or special study interest in Occupational and Environmental Health. Structured activities with goals, objectives, and deliverables are designed with individual faculty. May be repeated to a maximum of 6 credit hours per semester. Prereq: Enrollment in a College of Public Health program or consent of instructor. This is a controlled enrollment course; see instructor for additional information.

### **CPH 738 SPECIAL TOPICS IN BIOSTATISTICS: (Subtitle required).**

**(1-3)**

This course will engage students in readings, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 credit hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 739 INDEPENDENT STUDIES IN BIOSTATISTICS.**

**(1-3)**

Designed for advanced students with research or special study interest in Biostatistics. Students are under guidance and confer individually with faculty. May be repeated to a maximum of 6 credit hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

### **CPH 740 INTRODUCTION TO MATERNAL AND CHILD HEALTH.**

**(3)**

This course will acquaint students with the major issues and challenges of working in the area of maternal and child health. Prereq: UK graduate or professional school student status.

### **CPH 746 RESEARCH METHODS AND PROGRAM EVALUATION FOR HEALTH BEHAVIOR.**

**(3)**

This course provides the student with basic knowledge about the design and analysis of research in the field of health promotion. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health promotion practice, 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data. This course also prepares second-year MPH students concentrating in Health Behavior to successfully construct and defend their capstone in April of the current academic year. Prereq: CPH 672 and CPH 643, or permission of instructor.

### **CPH 748 RESEARCH.**

**(0)**

Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

### **CPH 752 LEADERSHIP IN HEALTH ORGANIZATIONS.**

**(3)**

This course is designed to explore the dimensions of leadership as presented in both the traditional and contemporary literature. It focuses student understanding on their leadership qualities and the ways to apply them in the current public health environment.

### **CPH 754 HEALTH CARE ACCESS AND COVERAGE.**

**(3)**

This course offered gives students a greater understanding of programs available to underserved populations, how the changes in the health care market impacts care provided to underserved populations, and policy and programmatic options to address the needs of underserved populations. Prereq: Graduate or post-baccalaureate student status.

### **CPH 755 LEADING CHANGE WITH HEALTHCARE TEAMS.**

**(3)**

This course focuses on developing the skills necessary to successfully facilitate teams to achieve sustainable change in healthcare systems. The course introduces the foundations of change management, key features of successful teams and factors that lead to team failures; and specific behaviors and communications that enhance effective team interaction. By the end of this course you will have a better understanding of team dynamics and the tools of implementation with special emphasis on applications to improve healthcare quality, safety, satisfaction and efficiency. Prereq: Enrollment in a College of Public Health degree program or certificate program (or permission of instructor).

**CPH 758 SPECIAL TOPICS IN HEALTH MANAGEMENT POLICY: (Subtitle required). (1-3)**

This course will engage students in readings, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 credit hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

**CPH 759 INDEPENDENT STUDIES IN HEALTH MANAGEMENT POLICY. (1-3)**

Designed for students with research or special study interest in Health Services Management. Students must develop a prospectus that specifies goals, objectives, and deliverables with individual faculty. May be repeated to a maximum of 6 credit hours per semester. Prereq: Enrollment in a College of Public Health degree program or consent of instructor. This is a controlled enrollment course; contact instructor for additional information.

**CPH 763 ETHICS FOR PUBLIC HEALTH. (3)**

The focus of this class is on applied ethics and its application to public health issues. In addition to examining current issues that might arise during the timeframe of the course, we will address the following: ethical frameworks, theories, and approaches; a unique public health ethics; social justice; ethics surrounding infectious diseases, including surveillance and control; health disparities; environmental and occupational health issues; genetics; smoking cessation; end-of-life issues; conundrums regarding vulnerable populations; public health research; and ethical leadership of public health organizations. Prereq: Enrollment in the MPH program or consent of instructor.

**CPH 767 DISSERTATION RESEARCH CREDIT. (2)**

Students will enroll in this course to complete their research for their dissertation. Prereq: Approval of DGS.

**CPH 768 RESIDENCY CREDIT FOR MASTER'S DEGREE. (1-6)**

May be repeated to a maximum of 12 credits. Prereq: All course work toward the degree must be completed.

**CPH 776 INTRODUCTION TO GLOBAL PUBLIC HEALTH. (3)**

This course will acquaint students with the major issues and challenges for public health in a variety of wealthy, emerging, and impoverished nations and with the impact of local or regional issues on national and/or global levels. Prereq: UK graduate or professional school student status.

**CPH 778 SPECIAL TOPICS IN PUBLIC HEALTH: (Subtitle required). (1-3)**

This course will engage in reading, projects, lectures and/or discussions to address current topics of special interest or concern in public health. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

**CPH 779 INDEPENDENT STUDIES IN PUBLIC HEALTH. (1-3)**

Designed for advanced students with research or special study interests in Public Health. Students are under guidance and confer individually with faculty. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

**CPH 780 STRATEGIC PLANNING AND MARKETING IN HEALTHCARE. (3)**

This course focuses on the future needs of health care organizations as contrasted with day-to-day operations management. Strategies for the design and implementation of organizational change will be addressed. The strategic planning components of environmental analyses, directional strategy, gap analysis, strategic options, goals and objectives, and performance monitoring form the basis of the course. Current trends in health care delivery and financing, marketing and performance measurements are illustrated through case analysis. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

**CPH 781 HEALTHCARE ETHICS AND GOVERNANCE. (2)**

This course addresses the basic concepts and principles of healthcare ethics, including the biomedical, managerial, and organizational components and applies them using case studies, role playing, and analytical exercises. The course also examines the roles and responsibilities of healthcare governing boards and factors that influence their effectiveness. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

**CPH 782 INFORMATION SYSTEMS IN HEALTH CARE. (3)**

This course provides an overview of information systems and their use in healthcare organizations. Topics include the history of IT use, recent developments, continuing challenges and emerging opportunities. The role of the healthcare manager in information system planning, selection and implementation is stressed. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.

- CPH 783 APPLICATIONS IN HEALTHCARE FINANCE AND OPERATIONS. (3)**  
An analysis of the healthcare industry's financial framework and operational issues applying insights from earlier coursework in realistic scenarios. Prereq: Enrollment in MHA Program.
- \*CPH 784 CASE STUDIES IN HEALTH ADMINISTRATION. (2)**  
This course builds on the concepts and techniques introduced in the MHA curriculum and integrates them with a decision making focus in a variety of healthcare problems and settings. Case analysis will be used extensively to develop an opportunity for the student to apply appropriate skills in an unstructured environment. Prereq: Enrollment in MHA program and completion of two semesters of course work.
- CPH 785 HEALTH POLICY. (3)**  
An analysis of the development and implementation of health policy on a national, state, local and organizational level. The course will focus on issue and policy analysis, formal and informal processes of policy development and the issues, values, and political and community factors affecting policy development and program implementation. Prereq: Enrollment in a College of Public Health degree program or permission of instructor.
- CPH 786 DOCTORIAL SEMINAR. (1)**  
Students will attend colloquium sessions that will supplement the core curriculum with additional application. Prereq: Enrollment in the Ph.D. in Epidemiology and Biostatistics program.
- CPH 787 INDEPENDENT STUDY IN HEALTH ADMINISTRATION. (1-3)**  
Supervised individual research on a topic related to health administration selected by the student. May be repeated to a maximum of six credits. Prereq: Enrollment in MHA program.
- CPH 788 SPECIAL TOPICS IN HEALTH ADMINISTRATION. (1-3)**  
An analysis of selected issues with special significance for health administration. Prereq: Enrollment in MHA program.
- CPH 790 WATER SANITATION AND HEALTH. (3)**  
Prevention of water-related diseases by appropriate supply and sanitation practices with designs applicable to small systems and rural areas of developing nations. (Same as CE 655.)
- CPH 841 ORIENTATION TO MEDICAL BEHAVIORAL SCIENCE. (1)**  
This course offers a structural exposure of students to the varieties of basic and clinical science research and current issues in health care policy under discussion at the University Medical Center. Following weekly attendance at research seminars and clinical rounds, students will present their observations in follow-up discussion groups. May be repeated to a maximum of three credits. (Same as BSC 620.)
- CPH 901 PUBLIC HEALTH DOCTORAL PROFESSIONAL COLLOQUIUM. (1)**  
Seminar course designed as the integrative introduction, consideration, capstone for the Doctor of Public Health (Dr.P.H.) degree. Offered each semester of enrollment. Prereq: Admission to the Dr.P.H. program.
- CPH 910 ADVANCED EPIDEMIOLOGY. (3)**  
This course provides students with the understanding of advanced issues in the design, analysis, and interpretation of epidemiologic studies. The course text and associated readings will focus on study designs and the methodologic approaches to addressing bias, confounding, and error in the design of population-based health research. The development of a systematic approach for evaluating evidence from epidemiologic studies as it relates to demonstrating causality will be emphasized. Focusing on study design, measures of associations, confounding, interaction, sources of bias and error, the student will gain an understanding of epidemiology and its role in the medical and public health sciences. Prereq: Enrollment in the doctorate of public health degree program and CPH 605 or consent of instructor.
- CPH 911 PROFESSIONAL SEMINAR IN EPIDEMIOLOGY. (3)**  
Professional Seminar in Epidemiology is an advanced course in one of the five content areas of public health designed as the link between academic work in epidemiology and application in Public Health practice. Prereq: Admission to the Dr.P.H. program, completion of CPH 910, or approval of instructor.
- CPH 920 ADVANCED ENVIRONMENTAL HEALTH. (3)**  
This professional seminar in Environmental Health is designed to provide comprehensive coverage of the principles upon which the Environmental Health field relies. Prereq: Admittance into the Dr.P.H. curriculum.

**CPH 921 PROFESSIONAL SEMINAR IN ENVIRONMENTAL HEALTH. (3)**

Designed as the link between academic work in environmental health and application health practice, and to prepare the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

**CPH 930 BIostatISTICS CONCEPTS FOR THE PUBLIC HEALTH PRACTITIONER. (3)**

This course covers topics relating to applications of biostatistics in public health. It provides a conceptual introduction to statistical methods commonly used in public health practice. Topics include data visualization, summary statistics, statistical testing, estimation, confounding, and an introduction to regression (linear, logistic, proportional hazards). Prereq: Doctor of Public Health Student.

**CPH 931 PROFESSIONAL SEMINAR IN BIostatISTICS. (3)**

Designed as the link between academic work in biostatistics and application in public health practice; and to prepare the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, CPH 930, or approval of instructor.

**CPH 940 HEALTH-RELATED BEHAVIORS: MODELS AND APPLICATIONS. (3)**

This course evaluates the use of models of health on related behavior and their applications for intervention in public health problems. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

**CPH 941 PROFESSIONAL SEMINAR IN HEALTH ENHANCEMENT. (3)**

Designed as the opportunity to link academic work in health enhancement with application in public health practice and to prepare the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, CPH 940, or approval of instructor.

**CPH 942 SEMINAR IN PUBLIC HEALTH COMMUNICATION. (3)**

This seminar in Public Health Communication is intended to acquaint students with theory and current research related to communication in public health settings. It is designed to provide insight into the communication that serves as the lifeblood of the organized institutions which promote public health. Those who wish to have a significant role in the management of public health practitioners, improve their understanding of organizations, understand how groups and individuals fit into the larger mission, need to apply advanced information and communication technologies, and desire to become more effective communicators will find this course worthwhile. This course is primarily designed to give students a background in theories, perspectives, concepts, and approaches to understanding communication. Thus, it seeks to promote student understanding, analytical skills, and critical thinking necessary for such professions as consulting, research, and management and for their own personal development.

**CPH 949 DOCTORAL CAPSTONE RESEARCH. (0)**

This course will allow Dr.P.H. students to remain in a full-time enrollment status at the University of Kentucky while working on their doctoral capstone. Enrollment is restricted and by special permission only; students may only register for this course after all for-credit course work has been completed.

**CPH 950 WELL MANAGED PUBLIC HEALTH CARE ORGANIZATION. (3)**

The Well Managed Public Health Care Organization is an advanced course addressing effective senior management of public and private organizations focusing upon public health. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

**CPH 951 PROFESSIONAL SEMINAR IN PUBLIC HEALTH MANAGEMENT AND PRACTICE. (3)**

Designed to link academic work in public health management with application in public health practice, and to prepare the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, CPH 950, or approval of instructor.

**CPH 952 SEMINAR IN ADVANCED LEADERSHIP. (3)**

This course provides the opportunity to link academic work in public health leadership with application in public health practice and to prepare the learner for a leadership role in public health. This will be accomplished through readings, case studies, exercises, and individual research relevant to the disciplines of the profession of public health and leadership. Prereq: Enrollment as a Dr.P.H. student or permission of the instructor.

**CPH 953 SEMINAR IN ETHICAL AND MORAL DECISION-MAKING. (3)**

This course provides the opportunity to link academic work in public health decision-making with its application to public health practice and to prepare the learner for the practice of public health decision-making based on ethical and moral principles. This will be accomplished through readings, case studies, exercises, and individual research relevant to the disciplines of the profession of public health decision-making. The period of Nazi Germany 1933-1945 will compose the underlying case study. The seminar will consider in depth the decisions made by Nazi political and military leaders, citizens, religious leaders, concentration camp commanders, guards, and prisoners, physicians, scientists and business leaders. Films will be used extensively in the seminar. Prereq: Enrollment as a Dr.P.H. student or permission of the instructor.

**CPH 954 SEMINAR IN ADVANCED PUBLIC HEALTH FINANCE AND ECONOMICS. (3)**

This course provides the opportunity to link academic work in public health finance and economics with application in public health practice and to prepare the learner for key leadership roles in public health. This will be accomplished through readings, case studies, exercises, and individual research relevant to the disciplines of the profession of public health finance and economics. Prereq: Enrollment as a Dr.P.H. student or permission of instructor and approval of the Associate Dean for Admissions and Student Affairs.

**CPH 956 PROGRAM EVALUATION FOR PUBLIC HEALTH PROFESSIONALS AND LEADERS. (3)**

This course is designed to provide Dr.P.H. students the knowledge and skills to guide and critically review program evaluations in their roles as public health professionals and leaders. The course focuses on providing an overview of the key concepts, methods, and approaches to program evaluation with an emphasis on public health practice. Topics include approaches to program evaluation, defining evaluation questions, managing an evaluation, program evaluation standards, program evaluation designs, reporting and disseminating results and findings, and political issues of evaluation. Prereq: Enrollment as a Dr.P.H. student or by permission of the instructor.

**CPH 960 BIOLOGY OF AGING. (3)**

This course will focus on the recognition and discussion of the outcomes of biological changes in terms of the effects of aging on the individual's physical and psychosocial systems. It will be organized utilizing a systems approach to presentations, class discussions, class readings and on-line discussions. Prereq: Enrollment as a Dr.P.H. student or by permission of the instructor.

**CPH 961 A STUDY OF THE OLDER PERSON. (3)**

An increasing elderly population during this century has created a variety of pressing social issues. Underscoring such issues is a long-standing cultural view of elders as a homogenous group of people who are "different" from younger labor force participants, a view that has resulted in pervasive "ageism" – the collection of attitudes and practices that may reflect discrimination against elders. A properly informed public is necessary to combat ageism and establish sound economic, social, cultural and health care policies that successfully encompass all ages of society. Gerontology is a field of study designed to provide knowledge and a sound data base for dealing with present and future issues of aging and the older population, especially within the realm of public health. This course has been designed to give students pursuing a Dr.P.H. with a concentration in gerontology a broad yet comprehensive graduate-level introduction to the field and to the experience of an older individual that will provide a solid foundation for subsequent courses, and more importantly, personal scholarly development in the program. An array of topics and themes will be presented to adequately represent the multidisciplinary nature of gerontology. Through critical examination of such topics and themes the learner will gain a conceptual foundation for developing effective skills in interdisciplinary inquiry. Prereq: Enrollment as a Dr.P.H. student or by permission of the instructor.

**CPH 993 PROFESSIONAL SEMINAR IN FOUNDATIONS OF PUBLIC HEALTH PRACTICE. (3)**

A culminating experience professional seminar linking evidence-based academic work in public health with the foundations of practice. A fundamental part of the course is to prepare the learner for a community advocacy role in public health using skill sets found in critical analysis and leadership. Prereq: All 9X0 and 9X1 courses in the Dr.P.H. program.

**CPH 994 PROFESSIONAL SEMINAR IN LEADING PEOPLE – MANAGING CHANGE. (3)**

A culminating experience professional seminar linking academic work in public health leadership, management and ethics with application to public health practice and preparing learners for a leadership role in public health. Prereq: All five 9X0 and three 9X1 courses in the Dr.P.H. program.

**CPH 995 DOCTORAL SEMINAR IN PUBLIC HEALTH RESEARCH METHODS. (3)**

A survey course in a seminar style covering both classical and recent literature in public health services, including description and critique of research. Prereq: HSM 601/CPH 602, STA 570 or 580, and admission to the Dr.P.H. program or post-doctoral fellowship; or consent of instructor.

**CPH 996 PUBLIC HEALTH PROJECT OR DISSERTATION RESEARCH. (1-12)**

Public health project or dissertation research for residency credit. To be repeated unlimited. Prereq: Completion of the Dr.P.H. Determinative Examination.

**CPH 997 DOCTORAL PUBLIC HEALTH FIELD PRACTICUM. (2-4)**

Required public health field work is the integrative component of the curriculum and an opportunity to apply and test didactic learning. May be repeated twice. Laboratory, eight to sixteen hours per week. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, second year status, or approval of instructor.

**CPH 998 SPECIAL TOPICS IN PUBLIC HEALTH (Subtitle required). (1-4)**

Designed to address contemporary topics of significance in the field of public health as well as the study of specific topics and problems. May be repeated three times. Prereq: Admission to the Dr.P.H. program, consent of instructor.

**CPH 999 DIRECTED STUDIES IN PUBLIC HEALTH. (1-4)**

Study and research on contemporary and specific topics and problems of significance to the field of public health, and the interests of individual students. May be repeated to a maximum of six hours. Prereq: Admission to the Dr.P.H. program, consent of instructor.