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 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.

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 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.

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 451G 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.
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: Admission to BPH program, CPH 310, CPH 320, CPH 440, HSM 241.

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: Admission to Bachelor of Public Health program; BST 330, CPH 310, CPH 320, CPH 440, CPH 450.

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 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: MHA/MPA program status.

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 PUBLIC HEALTH AND DISEASE PREVENTION. (3)
This course will introduce students to issues of public health and populations health status. Principles of disease prevention and the focus on population health will be explored. The behavior of population is a major variable in health outcomes. Behavior models resulting in positive health will be introduced. 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 M.P.H. 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 M.P.H. capstone project and oral final examination. May be repeated to a maximum of six credits.

**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 diseases. 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 616 CARDIOVASCULAR DISEASE EPIDEMIOLOGY.** (3)
This course is designed to study and evaluate the broad array of epidemiologic studies on cardiovascular disease and the impact on prevention policy. Prereq: Enrollment in a Public Health degree program, CPH 605/PM 620 - Introduction to Epidemiology, 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 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. Prereq: CPH 601.

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 hazardous model. Lecture, two hours; laboratory, two hours per week. Prereq: STA 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 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 570 or 580 and CPH 535, or consent of instructor.

#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 life-course 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 652 FINANCE MANAGEMENT FOR HEALTH CARE DELIVERY/PUBLIC HEALTH ORGANIZATION.  (3)
This course is an overview of financial practices in public health care organizations, including government, non-profit, insurance and direct providers. Prereq: Enrollment in a Public Health degree program and CPH 602/HSM 601, or consent 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 PUBLIC HEALTH ACCOUNTING AND FINANCE. (3)
This course is designed to introduce the use of accounting and financial management techniques in the management of public health organizations. Emphasis will be on the use of accounting and financial information to achieve management functions such as planning, staffing, organizing, controlling, and directing. Prereq: Enrollment as an MPH student.

CPH 658 PUBLIC HEALTH ECONOMICS. (3)
This course describes the role and methods of economics as applied to public health care delivery in the United States. Prereq: Enrollment in a Public Health degree program, CPH 602/HSM 601, or consent of instructor.

CPH 660 GIS AND PUBLIC HEALTH. (3)
This course will introduce students to the ArcView 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 IIIV 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 666 PRACTICUM IN CLINICAL RESEARCH I. (1)
This course for participants in the curriculum leading to the Graduate Certificate in Clinical Research Skills includes participation in a mentored research experience with the final goal of a presentation at a local program-specific retreat; attendance at monthly journal club meetings, two annual retreats, and special seminars; and completion of research reports. Prereq: Participation in curriculum leading to the Graduate Certificate in Clinical Research Skills.

CPH 667 PRACTICUM IN CLINICAL RESEARCH II. (1)
Participants working toward Graduate Certificate in Clinical Research Skills earn credit for associated activities and an abstract for a national meeting. Prereq: Participation in curriculum leading to Graduate Certificate in Clinical Research Skills.

CPH 668 PRACTICUM IN CLINICAL RESEARCH III. (1)
Participants working toward Graduate Certificate in Clinical Research Skills earn credit for associated activities and a journal article or funding proposal. Prereq: Participation in curriculum leading to Graduate Certificate in Clinical Research Skills.
**CPH 669 METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL SCIENCE.** (3)
This overview course is designed to introduce the student to the major methods and technologies of clinical and translational science. The course will consist of 14 presentations followed by open discussion of the presentation and assigned readings by class members. The location of classes may change based on the content of the lecture. Homework assignments will provide experiential opportunities to work with the various methods and technologies. Active participation by all members is expected. Each weekly presentation is designed to provide a general overview of a method or technology commonly used in clinical and translational science. Discussions are intended to integrate the information across traditional disciplinary boundaries. Homework assignments are designed to provide practical experience with the discussion topic. Prereq: Graduate standing.

**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 671 SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE.** (1)
This seminar course is designed to orient students to clinical and translational research community and activities at the University of Kentucky and to incorporate a multidisciplinary cooperative approach to clinical and translational research. 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 ongoing discussions. The course will consist of seven evening seminars focusing on different topics of clinical and translational research. Students will be required to present a description of their research interests and activities during one seminar. Homework assignments will require students to summarize the key elements of each seminar as related to clinical and translational research and the relevance of these issues to their own research interests and career plans. Active participation by all members is expected. 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 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)
Introduction to specialized epidemiologic content areas as well as methods designed to meet the research and practice of health professionals. Lecture, two hours; laboratory, two hours each week. Prereq: Enrollment in a Public Health degree program and CPH 605/PM 621 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 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 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 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 750 LEGAL BASIS OF PUBLIC HEALTH. (3)
Introductory course for non-lawyers in selected aspects of the law relating to public health. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 751 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 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 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 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 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 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 TOPICS IN ADVANCED EPIDEMIOLOGY AND LABORATORY. (3)
Provides the student with an introduction to advanced epidemiologic content areas as well as methods designed to meet the research and practice needs of health professionals. Lecture, two hours; laboratory, two hours per week. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval 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: Admission 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 955 PLAGUES AND POLITICS. (3)
This course provides the opportunity to link the political aspects of national and international epidemics and diseases, while understanding the responsibility of the US Public Health Service for developing and implementing policies and procedures for dealing with them.

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.