

Course Descriptions

PUBH 7010 Statistical Analysis I (3) - This is the first course of a two-course sequence to introduce students to regression-based methods for analyzing public health data. Topics include analysis of variance, multivariate analysis of variance, linear regression, generalized linear models, logistic regression, multinomial regression, and Poisson regression models. Software. Tennessee State University (TSU) provides support for both SPSS and SAS software packages. Consequently, the course will use both SPSS and SAS statistical software packages accordingly.

Prerequisites:

PUBH 7020 Statistical Analysis II (3) - This course is to introduce some common methods and issues in longitudinal and survival data analysis. Longitudinal data consists of multiple measures over time on a sample of individuals. The longitudinal data requires different approach due to the correlation introduced by repeated measurements. Topics include characteristics of the longitudinal design, graphical exploration of the mean and correlation structure, linear mixed effects models and multilevel modelling with the emphasis on data analysis and interpretation. The second part deals with the analysis of time-to-event data that occurs in medical and epidemiological research. Topics include censoring and truncation of data, life tables, nonparametric methods, parametric methods, and proportional hazards models with emphasis on model formulation, computation, and interpretation of results. Software. Tennessee State University (TSU) provides support for both SPSS and SAS software packages. Consequently, the course will use both SPSS and SAS statistical software packages accordingly.

Prerequisites:

PUBH 7030 Cultural Competency (3) - Cultural competency is more than an appreciation for cross-cultural difference. It also entails using this knowledge to manage the dynamics of difference so that diverse populations can benefit from health services. Achieving this requires making important health policy decisions. How cultural competency shapes health resource decision making at federal and local levels will be considered. With an emphasis on how federal laws, initiatives and policies influence culturally competent health practice and care, students will understand the histories behind these efforts, strategies for evaluating their impact, and implications for local public health practice and research. Culturally competent policy decisions will be considered from trans-cultural populations (Ethnomedical, Biomedical, legislative), emic (insider) and etic (outsider) perspectives.

Prerequisites:

PUBH 7060 Qualitative Research Design & Analysis (3) - This course will provide an overview of qualitative design and analysis in social and behavioral science research. The course will address qualitative study designs, data collection, analysis, and interpretation of research results involving diverse populations. Examples of topics to be covered include: observational methods, interviews, focus group discussions, and documentary analysis. Readings of research articles, assignments, and class discussions will also focus on ethical issues in qualitative research.

Prerequisites:

PUBH 7080 Environmental Justice: A Public Health Perspective (3) - This course explores the foundations of the environmental justice movement, current and emerging issues, and the application of environmental justice (EJ) analysis to environmental policy and planning. This course will trace the origins of the uneven distribution of environmental issues across communities, examine ways to measure environmental inequality, and analyze how environmental issues reflect and exacerbate social inequality. **Prerequisites:**

PUBH 7100 Advanced Epidemiological Methods (3) - The main objective of this course is to guide students conduct their own independent study. The course will introduce the students with details about research procedures. It will expand students' use of quantitative methods in the field of epidemiology, and it will prepare students to be able to apply proper epidemiological study design and analysis in their research question. The students will learn and discuss diverse study designs to achieve or approximate causal inference and what is required to estimate causal effects. Students will use the statistical package SAS for data analysis. **Prerequisites:**

PUBH 7110 Program Planning & Evaluation (3) - This course provides students the fundamentals of evaluation and research as applied to public health programs. The course covers process, outcome, and participatory evaluations,

and a number of research designs that are frequently used in public health evaluation research. Students will gain skills in critiquing published evaluation literature, and skills in measurement/data collection strategies. In addition, students will gain practical experiences with evaluation through a series of exercises where students design a conceptual evaluation framework, develop a network of indicators, and propose an evaluation plan to measure the impact of an intervention. **Prerequisites:**

PUBH 7120 Health Management & Policy (3) The purpose of this course is to provide graduate students with an orientation to health policy, politics, and the health policy process in the United States. Students will develop knowledge of current health policy issues, reform agendas at the federal, state, and local levels, and skills to critically examine their place in the health policy process. The course will discuss key forces involved in the policy process including economic, social, ethical, and political factors; and central players of importance, including special interest groups, lobbyists, the press, elected officials, legislative staff and public agencies. **Prerequisites:**

PUBH 7150 Healthcare Economics & Finance (3) - The course provides background and principles of management functions and an orientation to issues of financial management in the United States. Students should be able to develop knowledge of the finances of the healthcare enterprise (e.g., hospital, long-term care facility, or medical group). **Prerequisites:**

PUBH 7210 Mixed Methods Research Design (3) -The purpose of this course is to provide the student with an overview of mixed methods research, including designs for data collection, analysis, and integration. This overview will consist of the philosophy of mixed methods research, the purposes and characteristics of mixed methods research, types of research problems addressed, types of mixed methods design, data collection and analysis strategies within mixed methods designs, and reporting and evaluating mixed methods studies. **Prerequisites:**

PUBH 7220 Health Behavior: Behavioral Science Theory and Practice (3) - After considerable progress in controlling traditional infectious and environmental agents of disease, the focus for preventive health interventions has returned to the behavior of individuals, acting singly and collectively. Since behavior has become so strongly identified as a primary influence on health experiences, particularly chronic disease and AIDS, a considerable amount of research and inquiry in the social sciences has been applied to health concerns. As a result all health professionals need to take advantage of what is known about the health behavior of individuals, organizations, and communities. Promoting health behavior is a complex and multidisciplinary area of knowledge drawing from the fields of psychology, sociology, epidemiology, communication, and others. Research and practice activities in health and behavior have grown dramatically in the past decade. Given the extensiveness of the literature, this course primarily focuses on the most contemporary issues in behavioral science and health education. A multi-level, multi theoretical perspective is taken. The rationale for the growth of behavioral science within public health is reviewed; the effectiveness of health behavior interventions is explored; theoretical perspectives are surveyed; and applications of theory to specific settings and problems are reviewed.

Prerequisites:

PUBH 7230 Health Disparities (3) - This course focuses on the issue of health disparities. It will present the nature of racial and ethnic disparities and the prevalence of disparities in health status. Students will conduct and/or review research literature on race disparities. Also, theories that explain disparities and efforts to address them will be covered. **Prerequisites:**

PUBH 7240 Maternal, Child, & Family Health (3) - The course will explore racial and ethnic disparities in maternal and child health (MCH) and theories and models to understand these disparities, with the life course perspective (LCP) serving as the guiding framework. Course materials and assignments will examine how adverse childhood experiences (ACEs) and trauma experienced at each level of the social ecological model explain health outcomes, including how the historical and systemic burden of trauma can impact individuals and communities across the life span. **Prerequisites:**

PUBH 7260 Public Health & Intersectionality (3) - This course in public health and intersectionality explores the complex interplay between social identities, power structures, and health disparities. Students will critically

examine the ways in which intersecting social categories, such as gender, race, socioeconomic status, and sexual orientation, shape health outcomes and access to healthcare. Through an interdisciplinary lens, participants will explore theoretical frameworks, research methods, and interventions aimed at addressing health inequities at the intersection of multiple identities. The course will equip students with the knowledge and skills necessary to apply an intersectional lens in their research, policy development, and practice to advance health equity and social justice in public health. **Prerequisites:**

PUBH 7270 Research & Grant Writing (3) - Developing effective grant writing skills is essential for acquiring competitive research dollars for designing, implementing, and promoting public health programs. Writing an effective grant proposal is a combination of science and art. This course will teach students the mechanics of proposal writing, political and social aspects of "grantsmanship," developing their skills in identifying sources of grant funding, doing research to support their applications, developing grant proposals, and tailoring proposals to specific audience interests. It will also explain basic principles and tools of budget and resource management.

Prerequisites:

PUBH 7900 Quantitative Research Design & Analysis (3) - This course focuses on the quantitative research methodology and explores the associated research designs and related data collection, data analysis, inferential procedures, data interpretation & reporting of data used in public health research. The entire quantitative research process from the research question to the presentation of findings will be covered. The coursework will prepare students to build the skills necessary for conducting public health research and evaluation. **Prerequisites:**

PUBH 8000 Dissertation (3 - 6) - Upon the successful completion of qualifying examinations and approval of the dissertation topic by the student's advisory committee, a student may enroll in this course. Students are required to enroll for the dissertation each term from the beginning of a dissertation until passing his/her final defense. The purpose of the dissertation is to provide the student with an opportunity to apply knowledge and skills learned in the classroom to the real world in order to make a significant contribution to the field of public health. The empirical evidence and concepts gained in dissertation research must be logically and critically organized and developed, resulting in an original work that contributes to the field. Students complete the dissertation independently, with the guidance of a dissertation supervisory committee. **Prerequisites:**

PUBH 8100 Seminar in Critical Public Health Issues and Leadership (1) - This is an advanced seminar course directed and facilitated by the public health director and faculty. Seminars will be given by faculty members and guest speakers based on their research interest and expertise. This course may be repeated for a maximum of six credit hours. **Prerequisites:**

PUBH 8110 Special Topics (3) - This course provides the opportunity for faculty to offer a course on a topic that has emerged in the field of public health and needs to be addressed in a timely manner, such as SARS-CoV-2, to best prepare the next level of public health professionals. This course may be repeated for a maximum of six credit hours. **Prerequisites:**

PUBH 8230 Public Health and Aging (3) - This course explores the study of aging and its implication for individuals, families, and society, and the background for public health policy related to older adults. This course will explore the demography and epidemiology of population aging and implications for public health policies and systems. Four paradigms will be emphasized: successful aging, physical frailty, dementia care, and end of life care.

Prerequisites:

PUBH 8240 Health Communication & Literacy (3) - Health Communications & Literacy explores the communication process and practices that can be used to promote positive change in health care communication. This course will present current issues and information on health communications and health literacy for Public Health professionals both in implementation of programming and public health research. The coursework is designed to build skills in identifying innovative communication strategies for different audiences and community sectors. **Prerequisites:**

PUBH 8250 Community-Based Research: Public Health Interventions (3) - This seminar course surveys the principles and theoretical models underlying the application of community organization strategies to health education and health promotion. It exposes the student to specific steps in the community organization process and provides skills integral to implementation, including community intervention and change processes. Specific topic includes empowerment, coalition building, community competence, and media advocacy. Planning, implementing, and evaluating public health interventions to address major health problems will also be explored.

Prerequisites:

PUBH 8280 Disability & Mental Health (3) - This course will address the evolving view of disability, including mental health, in the field of public health. Students will be introduced to a broad range of topics in order to increase their understanding of the contemporary experiences of disability in America, such as the medical, psychosocial, vocational, political, and cultural aspects of disability. This course will examine how the intersection of education, employment, and environment impacts the health and well-being of people with disabilities and acquaint students with an array of service modalities used to address health and adjustment of people with disabilities. This course will also discuss common mental health pathologies with emphasis on how these maladaptive behaviors interfere with one's health and how these behaviors can be an asset or hindrance to health behavior change. This will include the evolution of the biopsychosocial model (multidimensional integrative model), assessment and classification of psychological disorders, treatment options under the United States health care system, mental health programming, cultural competency, and the public health side of mental health.

Prerequisites:

PUBH 8290 Rural & Urban Health (3) - This course will focus on the differences between people in urban and rural areas of the United States in terms of social, economic, and health perspectives. With the goal to provide counselors, educators, and other professionals with a multicultural perspective, and a deeper appreciation of the diversity in urban and rural health. **Prerequisites:**

PUBH 8310 Spirituality and Health (3) - In this course, students will critically examine the scientific literature investigating connections between spirituality, religiosity, and public health outcomes. We will also consider the role of faith communities in promoting health and the integration of spirituality into public health interventions and programming. **Prerequisites:**

PUBH 8330 Global Health Issues (3) - The course is designed to compare and contrast systems of health care from a multi-national perspective. We find that discussion of reform of the health care system in this country has been derailed, but nevertheless, the debate continues, often referring to the "lessons" from abroad. These comments are often ill informed, suggesting, for example, that Canada has a "socialized" health care system when, in fact, it does not. It behooves health professionals to know what has been tried, and is or is not working elsewhere. We will focus on specific integrative topics of global health systems. The instructor for the course will act as a guide and will invite guest lectures to augment class sessions. Students will be responsible for facilitating class sessions on selected topics. **Prerequisites:**