PUBH - Public Health

PUBLIC HEALTH Courses

PUBH 200. Principles of Public Health. 3 Credits.
Overview of the principles and practices of public health in the world. What is public health? What are its origins, evolution, and how is it structured and administered globally? A discussion of the mission, concepts, principles and practices of population-based public health will predominate. Topics will include global health and environmental health. Cross-listed with CHP 200.

PUBH 301. Principles of Environmental Health. 3 Credits.
An introduction to the chemical, physical and biological factors affecting human health and well-being. The emphasis is on application of controls to prevent disease and maximize environmental quality. Cross-listed with ENVH 301. Prerequisite: A grade of C or better in ENGL 110C.

PUBH 318. Principles of Nutrition. 3 Credits.
Course designed especially for those entering the health education or health care field, covering the physiology of each of the major body systems as a basis for understanding those aspects of its function that reflect the importance of various nutrients. Cross-listed with CHP 318. Prerequisites: CHEM 105N-CHEM 106N or CHEM 121N-CHEM 122N and CHEM 123N-CHEM 124N; BIOL 240, BIOL 241, BIOL 250 or BIOL 251. A declared major in the University or approval of the program director.

PUBH 328. Public Health Science. 3 Credits.
This course is designed to expand knowledge of the core functions of public health: biostatistics, environmental sciences, epidemiology, health policy and management sciences, and social and behavioral sciences. Cross-listed with CHP 328. Prerequisites: A declared major in the University or approval of the program director.

PUBH 335. Population Health. 3 Credits.
This course provides a population-based approach to professional work in disease management, chronic care management and politics, in addition to students studying public health, health policy, quality and patient safety, health care administration, medicine, nursing, pharmacy, social work and other related clinical professions. Cross-listed with CHP 335. Prerequisites: A declared major in the University or approval of the program director.

PUBH 360. Introduction to Global Health. 3 Credits.
This course introduces students to health-care delivery systems of non-Western countries, specifically developing countries. The various factors that influence health-care planning and delivery of health services are addressed. Cross-listed with CHP 360. Prerequisites: A declared major in the University or approval of the program director.

PUBH 390. The U.S. Healthcare Delivery System. 3 Credits.
The uniqueness of the U.S. healthcare delivery system will be explored in terms of a systems framework and its complexity. The basic characteristics that differentiate the U.S. healthcare delivery system from that of other countries will be presented. An understanding of the U.S. health care system has specific implications for health services managers. Cross-listed with CHP 390. Prerequisites: A declared major in the University or approval of the program director.

PUBH 395. Topics in Public Health. 3 Credits.
Study of selected topics. Prerequisite: A declared major in the University or approval of the program director.

PUBH 400. Ethics in Public Health. 3 Credits.
A survey of philosophical problems common to health sciences, including an analysis of the nature of health in its historical and contemporary contexts. Cross-listed with CHP 400. Prerequisites: A declared major in the University or approval of the program director.

PUBH 403W. Social and Behavioral Aspects of Public Health. 3 Credits.
The course will emphasize the importance of social context and cultural construction, social and behavioral foundations of public health and examine current issues in health from a social and behavioral sciences perspective. The course uses a social ecological framework to address multilevel influences on health and enlarge the dominant ‘risk factor’ approach to health behavior. This is a writing intensive course. Prerequisites: ENGL 110C and ENGL 211C with a C or better, CHP 328, CHP 335, and CHP 390.

PUBH 413W. Critical Issues in Public Health. 3 Credits.
Identification and analyses of critical issues currently facing public/community health and the American health care system. This is a writing intensive course. Cross-listed with CHP 415W. Prerequisites: ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C with a grade of C or better and a declared major in the University or approval of the program director.

PUBH 415. One Health-One Medicine. 3 Credits.
This course will teach students the applications of multidisciplinary competencies towards solving human health challenges. The course will identify all areas of global health issues that require human, veterinary and environmental applications for solutions. Prerequisites: junior standing and a declared major in the University or approval of the program director.

PUBH 421. Leadership in Public Health. 3 Credits.
The course will introduce students to the main theories of leadership in public health covering key concepts and strategies using the six levels of leadership framework. The course will explore how individual, team, organizational, community, professional and global leadership impact population and public health. Prerequisites: CHP 328, CHP 335 and CHP 390.

PUBH 422. Health, Culture and Diversity-Reducing Disparities in Public Health. 3 Credits.
The course will introduce students to the main theories of culture, health and diversity and examines what is meant by culture, the ways in which culture intersects with health issues, how public health efforts can benefit by understanding and working with cultural processes, and a brief selection of conceptual tools and research methods that are useful in identifying relationships between culture and health. The course will also include practical guidelines for incorporating cultural understanding in public health settings and examples of programs where that has occurred. Prerequisites: junior standing and a declared major in the University or approval of the program director.

PUBH 425. Health Aspects of Aging. 3 Credits.
Identifies major issues and problems in meeting health care needs of the aged. Emphasis on role of social assets and supports in determining effects of life changes on the aging process. Prerequisites: PUBH 328, PUBH 335, and PUBH 390.

PUBH 430W. Community Health Resources and Health Promotion. 3 Credits.
Designed to provide information about community health resources. This is a writing intensive course. Cross-listed with CHP 430W. Prerequisites: ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C with a grade of C or better and a declared major in the University or approval of the program director.

PUBH 441/541. Multi-Disciplinary Approaches to Suicide Prevention. 3 Credits.
Using readings from health sciences, public health, law and psychology, the course addresses multi-level influences on suicide and its prevention. Topics covered include suicide prevention-related ethical issues, terminology, attitudes and social norms, vulnerable populations, risk/protective factors, and public health approaches to prevention. Prerequisite: Junior standing.

PUBH 445. Health Services Research Methods. 3 Credits.
This course focuses on health services research and its assessment abilities and application in health care. Topics include the use of EXCEL, SAS, and SPSS to analyze data. An exploration of the issues and challenges of health services research for health related organizations and other organizations. Statistical procedures and practices will also be conducted. Cross-listed with CHP 445. Prerequisites: STAT 130M.
PUBH 448. Epidemiology and Biostatistics. 3 Credits.
An introductory course in the principles and practices of epidemiology and the application of statistical and mathematical design and analysis of health research studies for the understanding and control of population health and disease with emphasis on environmental applications. Cross-listed with ENVH 448. Prerequisites: STAT 130M, MATH 162M, and a declared major in the University or approval of the program director.

PUBH 450. Public and Community Health Administration. 3 Credits.
A review of the principles and practice of administering public and community health organizations and programs at federal, state, and local levels. Constitutional, statutory and administrative bases for organizing and conducting public/community health programs will be discussed. PUBH 400, PUBH 413W or PUBH 430W, and PUBH 450 meet the oral communication requirement in the major. All three courses must be taken to meet the requirement. Cross-listed with CHP 450. Prerequisites: A declared major in the University or approval of the program director.

PUBH 461. Managerial Epidemiology. 3 Credits.
This course will blend theory and application of epidemiology. This course will also provide a comprehensive introduction to epidemiology and explain how to use epidemiological concepts and tools to improve decisions about the management of health services. Cross-listed with CHP 461. Prerequisites: PUBH 328, PUBH 335, PUBH 390, and a declared major in the University or approval of the program director.

PUBH 468. Internship. 3 Credits.
The internship will allow a person new to the health administration field to complete a capstone internship to gain entry skills for a beginning career pathway in health services administration. The course is intended to provide cumulative experience and assimilation of all the theoretical aspects learned in the coursework in a practical/work setting. Internship is the last course in the program coursework. A minimum of 200 hours is required. Cross-listed with CHP 468. Prerequisites: PUBH 390, PUBH 403W, PUBH 413W or PUBH 430W, PUBH 445, and PUBH 461.

PUBH 475. Healthcare Marketing. 3 Credits.
This course provides a basic understanding of marketing in a health care setting. It will cover the following: the history of marketing in a health care setting, health care markets, marketing techniques, and leadership skills in managing and supporting the marketing efforts. Cross-listed with CHP 475. Prerequisite: a declared major in the University or approval of the program director.

PUBH 485. Public Health Informatics. 3 Credits.
This course focuses on healthcare informatics (information systems) and applications in health care organizations. It provides an overview of health information system concepts, management, and integration of technology in healthcare organizations. Cross-listed with CHP 485. Prerequisite: junior standing and a declared major in the University or approval of the program director.

PUBH 495. Topics in Public Health. 3 Credits.
This course provides the opportunity for the study of selected topics in public/community health, including informatics, under the supervision of a faculty member. Prerequisites: A declared major in the University or approval of the program director.

PUBH 541. Multi-Disciplinary Approaches to Suicide Prevention. 3 Credits.
Using readings from health sciences, public health law and psychology, the course addresses multi-level influences on suicide and its prevention. Topics covered include suicide prevention-related ethical issues, terminology, attitudes and social norms, vulnerable populations, risk/protective factors, and public health approaches to prevention.

PUBH 600. Environment, Society and Health. 3 Credits.
Introduces students to 21st century environmental health issues and challenges, and examines how they affect health in the region, nation and world. Topics include: air/water quality, food safety and food-borne illness, antibiotic resistance, emergency preparedness and response, sea level rise, vulnerable populations, radiation safety and health, pediatric environmental health, tick-borne illness, hazardous substances, environmental health policy and practice, and environmental risk communication.

PUBH 602. Environmental Health Law, Justice and Governance. 3 Credits.
An overview of environmental health law and governance at the local, state, federal and international levels. Students examine the environmental health policy-making process and how laws, regulations and treaties are made and implemented. Students also will be familiarized with U.S. environmental public health statutes, key institutions and agencies, current controversies, issues of environmental justice, and major international treaties related to environmental health. Prerequisites: PUBH 600 and PUBH 610.

PUBH 610. Introduction to Public Health Practice. 1 Credit.
Provides an introduction to the multidisciplinary field of public health by examining the history, structure and functions of the public health system. Course is organized around the three core functions of public health: assessment, policy development and assurance while focusing on elements of the basic public health disciplines.

PUBH 611. Social and Behavioral Sciences for Public Health. 3 Credits.
Students will learn about different theoretical perspectives and how to apply appropriate social and behavioral models to public health programs. Topics discussed include social inequalities in health status related to culture, race, social class, gender, and the critical intersection between social risk factors, behavioral risk factors, and the development and implementation of public health interventions.

PUBH 622. Research Methods in Public Health. 3 Credits.
This is a course in research methods that will provide an overview of the basic principles of research design, methods, measurement, data collection and data management in the field of public health. Students will learn the differences between quantitative, qualitative and mixed-methods approaches to public health research, as well as how to formulate and evaluate research questions.

PUBH 624. Systems Thinking and Health Management. 3 Credits.
Students will learn the practice of systems thinking, which includes the ability to integrate multiple perspectives and synthesize them into a framework or model that encompasses the various ways in which a system might react to policy choices.

PUBH 632. Environmental and Occupational Health Risk Assessment. 3 Credits.
This course is an introduction to quantitative and qualitative risk analysis and examines the fundamental aspects of risk, focusing on environmental, occupational, and public health risk. Hazard identification, exposure assessment, dose-response evaluation, risk characterization, and risk communication are emphasized.

PUBH 640. Health Disparities and Social Justice. 3 Credits.
This course provides an introduction to the topic of global health disparities through an in-depth examination and discussion of the relationship between social injustice and inequitable health outcomes. Students will be introduced to the social and environmental determinants of health disparities and the pathways and mechanisms leading to inequitable health outcomes in vulnerable groups, as well as strategies for addressing these determinants to improve health.

PUBH 643. Principles of Toxicology. 3 Credits.
An introduction to the fundamentals of toxicology with emphasis on the interaction of environmental and industrial chemicals with humans are studied. Exposure, dose response, kinetics and distribution of toxicants, metabolism of toxic agents, factors that affect toxicity and introductory chemical carcinogenesis are discussed.

PUBH 690. Integrative Learning Experience. 3 Credits.
This course provides a culminating learning experience in the MPH curriculum, which gives students the opportunity to demonstrate integration of foundational and concentration competencies and to apply the knowledge and skills achieved in their study of public health. The learning outcome is the demonstrated mastery, via course assignments, of core public health and discipline- or concentration-specific competencies.
**PUBH 746. Principles of Epidemiology. 3 Credits.**
This course covers basic epidemiologic methods and research study design such as case-control and cohort studies, randomized trials, risk estimation, and causal inferences. Content also covers the use of epidemiology in public health practice, links to health policy, and the factors and associations determining the distribution of disease in the population.

**PUBH 778. Global Environmental Health. 3 Credits.**
The goal of this course is to guide students with a public health perspective to develop skills to identify and analyze environmental health problems globally. It is designed to provide knowledge on recognizing and evaluating major environmental health issues and risk factors in developed and developing countries by using group discussions and real-life case studies.

**PUBH 784. Creating Sustainable Environmental Futures. 3 Credits.**
This course examines the interrelationships between individual and societal decisions and the global environment, and analyzes the consequences these interrelationships have for public health and sustainability. The course will review food, environmental quality, climate variability, sea-level rise and public health, homes-workplaces-communities, environmental health and sustainability, in the region, the nation and around the world.