

PUBLIC HEALTH (PUBH)

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PUBH 199 Service-Learning in Health Sciences Leadership (3 Credit Hours)

This introductory course aims to teach students the fundamental concepts, principles, and practices associated with interprofessional health approaches. The course will emphasize the importance of teamwork, communication, and respect among various health professionals in delivering holistic care across the health continuum.

Outcomes:

Compare roles, responsibilities, values, ethics, communication, and teamwork of various health professions; Discuss evidence-based impact of interprofessional research, practice, and education; Communicate effectively across professions; Participate in interprofessional teams and case-based activities

PUBH 300 Introduction to Public Health (3 Credit Hours)

Public health is the science of preventing disease and protecting and promoting the health of populations and communities. Through interactive exercises and application of concepts, this course considers its history; ethical principles; scientific foundation and tools; biomedical bases; socioeconomic and behavioral factors; environmental issues; and relationship to medical care.

Course equivalencies: X -PUBH 300/ ENVS 300

Outcomes:

Describe the history, core concepts, functions, and methods of public health; Define health disparities and explain how they are produced; Synthesize public health information and communicate it effectively

PUBH 301 Health and the Environment (3 Credit Hours)

This course is designed as an introduction to the field of environmental health, including regulations, research, disease prevention, and advocacy.

Course equivalencies: X-ENVS301/PUBH301/MBPH401

Outcomes:

Students will be able to outline approaches for assessing and controlling environmental hazards that affect community health and discuss major local, national, and global health challenges

PUBH 303 Fundamentals of Epidemiology (3 Credit Hours)

Epidemiology is the study of the distribution and determinants of disease in populations and remains the basic science of public health. The objective of this course is to familiarize students with the range of tools used to conduct epidemiologic analysis, including study design and measures of association.

Course equivalencies: X- PUBH 303/ENVS 303/MPBH 403

Outcomes:

Apply epidemiological methods to public health problems; select appropriate quantitative data collection, study designs, and analytical methods; apply adjustment techniques; and calculate measures of association; and interpret and communicate results

PUBH 304 Health Behavior and Health Promotion (3 Credit Hours)

This introductory course is designed to provide students with a foundation in behavioral theory as applied to public health practice, including health education and health promotion. Health education strategies will be examined from the perspective of health literacy, cultural competency, and adult learning behaviors among other dynamics.

This course satisfies the Engaged Learning requirement.

Outcomes:

Describe a range of health behavior theories and frameworks commonly incorporated into public health interventions on the individual, inter-personal, and community level

PUBH 305 Public Health Communication (3 Credit Hours)

This course will teach students effective use of health literacy and health communication tools, including the use of mass media, online social media, and health professions' communication with patients in clinical settings.

Outcomes:

Students will be able to develop communication tools such as infographics and brief web-based videos and evaluate public health information

PUBH 306 Critical Thinking in Public Health (3 Credit Hours)

This course is designed to prepare students to make reasoned, intelligent decisions about public health matters by learning about and practicing how to think, read, write, and speak critically.

Outcomes:

Be able to evaluate the credibility of sources of information, scrutinize arguments, recognize biases in oneself and in others, and take a stand on public health issues and support it

PUBH 307 Foundations of Public Health Policy (3 Credit Hours)

Provides students with theoretical frameworks to understand public health policy issues, introduces public policy making processes, and enables students to analyze position papers on policy topics. Drawing from law, economics, political science, ethics and epidemiology, the course provides students with the knowledge and skills to understand policy-making processes.

Course equivalencies: PUBH 307/MPBH 407

Outcomes:

Explain how federal, state, and local health policy is formulated, implemented and evaluated; Assess the balance between the public good and individual rights in the policy process in public health

PUBH 309 Introduction to Biostatistical Methods for Public Health (3 Credit Hours)

This course offers an introductory overview of the fundamental and foundational biostatistical concepts and methods that are critical in the field of public health. Emphasizing the application and interpretation of biostatistical methods, it covers a broad spectrum of topics including graphical and numerical descriptive statistics for data summarization and exploration; probability theory with an emphasis on the binomial (discrete) and normal (continuous) distributions, which are crucial for understanding statistical inference; and inferential statistics, encompassing point estimation, interval estimation, and hypothesis testing to support evidence-based decision-making. The course also introduces nonparametric statistical methods for analyzing data without assuming a specific distribution.

Outcomes:

Explain the fundamental concepts of probability and statistics as they apply to public health data; Analyze graphical and numerical descriptive statistics to effectively summarize public health data; Evaluate basic inferential statistical methods, including hypothesis testing and confidence intervals, to draw and justify conclusions from public health data; Justify the appropriate statistical methods for specific public health research scenarios based on the data type and research question; Communicate statistical information effectively to various audiences within the field of public health

PUBH 310 Public Health Internship (3 Credit Hours)

This practical internship course will integrate theory, where students will unpack the complexities of Public Health and gain an understanding of the roles and responsibilities of professionals. Careers in Public Health are multidimensional, students will integrate real world experience reflecting on experiences of leadership, health equity, community engagement, and professional development.

This course satisfies the Engaged Learning requirement.

Outcomes:

Integrate academic internship experience with course curriculum academic content through critical reflection of leadership theory and development; assess leadership identity, leadership behavior, and civic role in a public health framework

PUBH 313 Community Assessment and Program Planning (3 Credit Hours)

This course will teach the basics of community health assessment and public health program planning, implementation, monitoring, and evaluation. This will include learning data collection techniques, program design, data analysis strategies, and how to present evaluation findings to different audiences. Students will then apply the lessons learned in class by developing a project plan for a hypothetical public health program.

Outcomes:

Describe a community health assessment; Define conceptual frameworks and logic models and their purpose in the context of public health programs; Design data collection tools for community health assessment and program evaluation purposes; Determine the best evaluation strategy to use in various programmatic scenarios; Apply program planning, implementation, monitoring, and evaluation methods to case study assessment

PUBH 314 Global Public Health (3 Credit Hours)

This course is an introduction to global public health and focuses on health disparities on the international level. The course addresses the determinants, consequences and trends of infectious and non-communicable disease, maternal and child health, and refugee and migrant health in low-and-middle-income countries.

Course equivalencies: X-HSM210/PUBH314/ENVS385

Outcomes:

Students will be able to discuss major current global public health issues, identify effective and ineffective aspects of international public health programs, and create context-specific health promotion materials

PUBH 315 Public Health Advocacy (3 Credit Hours)

This course is designed to equip students with a foundational understanding of the essential role of advocacy in informing and advancing public health policy, as well as skills necessary to engage in that process. Students will examine public health advocacy campaigns, the legislative process at the local, state, and federal level, the need for evidence-based research in shaping public health policy, the importance of critically evaluating policy proposals, and the incorporation of health equity in the process. The course will cover assessment of the political landscape, stakeholder engagement, and the development of strong written, verbal, and multi-media communication skills. The class will address current public health issues through lectures, class discussions, and projects, including projects aimed at engaging legislators.

Outcomes:

Develop effective advocacy strategies tailored to public health issues; Evaluate evidence-based research to support policy recommendations; Engage diverse stakeholders to advance public health initiatives; Craft persuasive advocacy messages for diverse audiences; Explain the legislative and policy-making processes involved in implementing public health changes

PUBH 390 Special Topics: Public Health Intelligence (3 Credit Hours)

Pre-requisites: Students must have completed one statistics course including STAT 103, PSYC 304, STAT 335, ISSCM 241 equivalent

This course provides both a conceptual foundation and a hands-on introduction for PH informatics - the science of collecting, organizing, and using information to promote and protect the health of all people. Students will work with real-life data sets, from food safety to crime reports, while furthering their understanding of the intersection of public health practice and informatics.

Outcomes:

After taking this course, students will have developed a conceptual foundation for quickly assessing data sets and evaluating informatics approaches to produce high-quality information resources for decision makers

PUBH 391 Leadership and Public Health Entrepreneurship (3 Credit Hours)

Public health entrepreneurship provides a pathway for action to solving public health challenges. Students will learn how to identify public health challenges, ideate, develop sustainable solutions rooted in evidence, cultivate partnerships, lead with authenticity, communicate through the art of storytelling, and champion community well-being.

Outcomes:

Define public health entrepreneurship and explore its role in addressing health disparities with communities

PUBH 392 Special Topics In Public Health (1-3 Credit Hours)

Pre-requisites: Restricted to students in the Bachelor of Public Health (BSPH) program, or with permission of the instructor

This course covers a specific topic in public health.

Outcomes:

Students will be able to articulate a general understanding of the selected topic

PUBH 395 Independent Study in Public Health (1-4 Credit Hours)

This is a directed study course in public health for approved students, supervised by a member of the faculty. Students must have an assigned professor, written objectives, planned outcomes and timelines. Students must have permission from the Public Health Program Director to enroll.

Outcomes:

Upon successful completion of this course, the student will be able to articulate a general understanding of the selected topic

PUBH 399 Public Health Capstone Experience (3 Credit Hours)

This course is a cumulative, integrative and scholarly or applied experience or inquiry project. It may include internships, service-learning projects, senior seminars, portfolio projects, or research paper. The project provides the opportunity for students to demonstrate proficiency in effective communication skills through a written report and oral presentation.

This course satisfies the Engaged Learning requirement.

Outcomes:

Demonstrate in written report and oral presentation the knowledge and skills acquired during the undergraduate program through selected projects which translate gained information into public health practice, including research