

PUBLIC HEALTH (PUBH)

PUBH 2100 - Introduction to Global Health

Credit(s): 0 or 3 Credits

This course introduces students to the concepts of public health by tracing its historical evolution. By using classic public problems and their resolutions, the philosophy, values and mission of public health are examined. The trends in global health such as epidemic responses, disease-specific programs, funding mechanisms, and capacity-building are discussed. (Offered every Fall and Spring)

Attributes: Global Citizenship (A&S), Global Local Justice-Global, International Studies, International Studies-Health, Service Learning, Urban Poverty - Health Care

PUBH 2300 - Contemporary Issues in Global Health

Credit(s): 3 Credits

This course explores biological, environmental, social, and political factors impacting the health of populations across the globe. Topics covered will change depending on current events, but will likely include: environmental degradation, climate change, biosecurity, health education in diverse populations, and chronic and infectious diseases. (Offered every Fall and Spring)

Prerequisite(s): PUBH 2100

Attributes: Global Local Justice-Global, International Studies, International Studies-Health, Service Learning, Urban Poverty - Health Care, Urban Poverty - Immigration

PUBH 2700 - Public Health Issues in Emergency Management

Credit(s): 3 Credits

This course will review the role and capacity of public health and health care systems in disaster preparedness and response to all disasters. Students will examine the growing threat and public health consequences of disasters. The course will cover theory and practice in emergency management and consider implications for policy makers. (Offered in Fall)

PUBH 2930 - Special Topics

Credit(s): 3 Credits (Repeatable for credit)

PUBH 2980 - Independent Study

Credit(s): 1 or 3 Credits (Repeatable for credit)

PUBH 3200 - Evidence Based Public Health

Credit(s): 3 Credits

This course introduces students to approaches for developing and selecting public health interventions and evaluating their efficacy from a scientific perspective. With examples taken from health systems around the world, students learn how to access and interpret data systems and analytical methods and apply public health evidence to public policy making. This course will address the challenges of translating and disseminating research discoveries into communities. (Offered every Fall and Spring)

Prerequisite(s): PUBH 2100

PUBH 3700 - Mental Health Implications of Emergency Management

Credit(s): 3 Credits

This course will provide an introduction to the disaster field, a detailed examination of the service delivery systems, and guidelines for attending to the mental health needs of disaster victims and responders. This course views disasters events within their ecological context and strives to create sensitivity to diverse and at-risk populations. (Offered in Fall)

PUBH 3930 - Special Topics

Credit(s): 1-3 Credits (Repeatable for credit)
(Offered in Spring)

PUBH 3980 - Independent Study

Credit(s): 1 or 3 Credits (Repeatable for credit)

PUBH 4000 - Politics and Public Health Advocacy

Credit(s): 3 Credits

Public health is inherently a political discipline. Practitioners require an understanding of the way public opinion and legislation on matters of public health are shaped. This course exposes students to the basics of public health policy, coalition-building, written and verbal advocacy tools, and includes several real-world experiences of advocacy work. (Offered every Fall and Spring)

Prerequisite(s): Minimum Earned Credits of 60

Restrictions:

Enrollment is limited to students with a program in Public Health.

Attributes: Global Local Justice-Elective, Urban Poverty - Health Care

PUBH 4100 - Biological Basis of Public Health

Credit(s): 3 Credits

A basic understanding of public health biology is the cornerstone upon which rest the five core disciplines. A unique characteristic that differentiates public health from other social movements or social action is its grounding in science. The biological aspects of humans, microorganisms, and other factors such as physical environment will provide insight into this important relationship. (Offered every Fall and Spring)

Prerequisite(s): Minimum Earned Credits of 60

Restrictions:

Enrollment is limited to students with a program in Biostatistics, Health Management or Public Health.

PUBH 4930 - Special Topics

Credit(s): 3 Credits (Repeatable for credit)

PUBH 4960 - Capstone in Public Health

Credit(s): 3 Credits

This course enables students to demonstrate achievement of the Bachelor of Science in Public Health program learning outcomes through individual and group projects. Students will also synthesize public health experiences with other undergraduate coursework and experiences and engage in professional development. (Offered every Fall and Spring)

Prerequisite(s): HMP 1300, PUBH 2300, PUBH 3200, PUBH 4000*, PUBH 4100*, BST 3100*, EPI 4000*, and HCE 3100

* Concurrent enrollment allowed.

Restrictions:

Enrollment is limited to students with a major in Public Health.

PUBH 4970 - Directed Research in Public Health

Credit(s): 3-6 Credits (Repeatable for credit)

The course provides students with an opportunity to work closely with faculty on research in public health.

PUBH 4980 - Directed Readings in Public Health

Credit(s): 1-3 Credits (Repeatable for credit)

PUBH 5010 - Mission and Practice of Global Public Health

Credit(s): 2 or 3 Credits

This course introduces students to the context of public health practice, including its legal basis, history, mission, the core functions of public health, and institutional structure of public health practice. Theoretical and practical perspectives are presented to illustrate the workings of public health at local, state, national, and global levels.

PUBH 5030 - Methodological Approaches to Understanding Population Health**Credit(s): 3 Credits**

This course explores the determinants of a population's health focusing on the analytic methods used to help identify, understand, and address inequities in health at the organizational, community, and societal levels. Emphasis will be placed on understanding and selecting appropriate quantitative and qualitative data collection methods for a given public health context while considering study design, sampling, causality, and threats to validity. Students will learn to interpret results of data analysis and translate this information to practice through reading the literature and considering how evidence is used to inform health policy, address population health challenges, and communicate with diverse audiences.

PUBH 5040 - Generating Evidence from Public Health Data**Credit(s): 3 Credits**

The course introduces students to the critical importance of evidence in advancing public health knowledge, and the role of qualitative and quantitative analytic methods in describing and comparing health determinants and outcomes in a variety of public health contexts. The course has three primary focus areas: data collection, data analysis, and interpretation and communication of results. Course topics include study design and sampling, questionnaire development, data visualization, and statistical inference and modeling. Students will use software to analyze data and will learn how to appropriately report on findings both in writing and orally.

PUBH 5050 - Health Care Across the Life Course: From Policy to Practice**Credit(s): 3 Credits**

This course provides an overview of and orientation to the US health care and public health delivery systems with a specific focus on access, delivery and utilization across the life course. Topics include the delivery, financing, regulation, and administration of health care and public health services for diverse health care organizational structures. The intersection of population health, public health, health policy, and advocacy will be discussed in relation to health services delivery.

PUBH 5060 - Environmental and Biological Determinants of Health**Credit(s): 2 or 3 Credits**

This course addresses the interaction of the physical, biological, and social environments of individuals in which they work and live. It presents a broad survey of the major environmental issues facing contemporary society in both developed and developing countries. The course combines an overall ecological perspective with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect our lives.

PUBH 5070 - Translating Evidence and Theory for Community Practice**Credit(s): 3 Credits**

Assessment, planning, implementing and evaluating health promotion and health education programs are key skills to master in order to function effectively as a public health professional. Assessing community needs helps determine appropriate approaches for addressing needs. Using evidence and theory enhances the likelihood of program effectiveness. Evaluating programs is critical in order to ensure they are maximally effective and efficacious and able to be sustained over time for lasting improvements in health. This course provides an overview of these core public health competencies to prepare students to function effectively in public health practice.

PUBH 5110 - Managerial Aspects of Public Health Practice**Credit(s): 3 Credits**

This course presents concepts and methods of management tools useful for directing a public health agency. Topics concerning organizational design, finance and budgeting, human resources management, public relations, quality improvement, and planning are presented with examples primarily focused on state and local public health practice.

Prerequisite(s): PUBH 5010

PUBH 5510 - Grant Writing**Credit(s): 3 Credits**

This course will provide information and hands-on experience on the content and process for preparing competitive grant proposals. Lectures and discussions will examine major funding sources and their interests, core components of grant proposals, the process for preparing proposals, strategies used by reviewers to evaluate grant proposals, and techniques for writing concisely. (Offered annually)

PUBH 5600 - GIS and Public Health**Credit(s): 3 Credits**

This is an introductory course in Geographic Information Systems (GIS) and its application in the Public Health arena. Historically, the public health system has relied on three components to accomplish its vital role in the community of mankind. These three components are comprised of public health workforce, the structure that supports and maintains these dedicated workers and the information and communication systems used by these organizations in collecting and disseminating accurate data for the decision-makers and the public. This course will explore portions of the last component of this mix. It will delve into the basic structure of geographic information systems (GIS), define GIS as a technology – a computer -based system for integrating and analyzing geographic data – and explore the concept that geographic patterns are inherent in data and relationships between features.

PUBH 5610 - Remote Sensing in Public Health**Credit(s): 3 Credits**

This introductory course emphasizes the use of remote sensing techniques and methods as tools are applied to understand infectious disease and environmental health interactions. The goal of this course is to give students a combination of theoretical background, examples of applications in the literature and hands-on experience in using remote sensing hardware and software. This course will provide an introduction to the basics of remote sensing, focusing on analyzing and addressing public health issues. It is intended for graduate students and will provide information and experience to understand the basic concepts, language, and methodologies of remote sensing as related to the issues of concerns to public health professionals. It will provide a platform of knowledge and expertise from which informed decisions concerning the application of remote sensing methodologies and interpretations can be made. This course will not produce remote sensing experts in the public health arena; however, individuals who understand the concepts, can frame pertinent questions, and coordinate with remote sensing analysts or spatial scientists to investigate and solve public health questions.

PUBH 5620 - Politics and Public Health Advocacy**Credit(s): 3 Credits**

Public health is inherently a political discipline. Practitioners require an understanding of the way public opinion and legislation on matters of public health are shaped. This course exposes students to the basics of public health policy, coalition-building, written and verbal advocacy tools, and includes several real-world experiences of advocacy work.

PUBH 5900 - Public Health Rounds**Credit(s): 0 Credits** (Repeatable for credit)

The purpose of this course is to promote student's development of professional skills and knowledge necessary for successful careers, and to support students prior to and during their internship experiences. The sessions will provide information and skills for choosing an appropriate practice experience, exploring careers in public health, and preparing for job searches and placement.

PUBH 5910 - Practice Experience in Public Health**Credit(s): 0 or 3 Credits** (Repeatable for credit)

This course provides supervised experience in application of public health techniques through work in a public health agency or other health care organization.

PUBH 5930 - Special Topics**Credit(s): 1-3 Credits** (Repeatable for credit)**PUBH 5950 - Special Study for Examinations****Credit(s): 0 Credits** (Repeatable for credit)

Registration is required for Master of Public Health students during the semester of their oral comprehensive examinations.

PUBH 5960 - Capstone in Public Health Practice**Credit(s): 3 Credits**

This culminating experience requires students to apply the knowledge and skills they have acquired across the MPH curriculum to a situation approximating some aspect of professional practice. Each student will prepare a major paper focused on a program, service, or policy related to a significant public health problem or issue.

PUBH 5970 - Research Topics in Public Health Practice**Credit(s): 1-3 Credits** (Repeatable for credit)

This course provides direct research experience in public health. Content is developed jointly between the student(s) and a faculty mentor.

PUBH 5980 - Graduate Reading in Public Health Practice**Credit(s): 1-3 Credits** (Repeatable for credit)

This course provides specialized study in public health to enhance skills in literature review and problem solving. Content is developed jointly between the student(s) and a faculty mentor.

PUBH 5990 - Research Project**Credit(s): 0-2 Credits** (Repeatable for credit)

This course is an independent directed research project that culminates the Master of Science in Public Health. Under the guidance of the academic advisor and other qualified mentor(s), each student designs and implements a research project commensurate with their professional training and interests, using the skills developed in the Masters of Science in Public Health curriculum.