PUBH Public Health

PUBH 2131 Introduction to Community and Public Health
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Introduces the student to the core functions of public health with an emphasis on community health programs and current trends of population health. Exposes the student to the role of community health practice in maximizing the health status of all populations. Course will include an overview of the organizational structure of federal, state, and local health-related agencies and examine the interrelationship of political, social, cultural and economic dimensions of community-based population health activities.

PUBH 3130 Substance Use and Abuse
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course explores legal and illegal drug use in modern society. Issues related to the social, cultural, political and economic impact of drug use will be discussed. The emphasis in the course will be on prevention, treatment and effective education techniques for various practice settings and target populations.

PUBH 3131 Chronic Diseases: A Modern Epidemic
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Chronic conditions (e.g., diabetes, cardiovascular disease, renal disease, obesity) are currently responsible for sixty percent of the global burden of disease and the World Health Organization predicts this to rise to eighty percent by the year 2020. This is one of the greatest challenges facing health care systems throughout the world and it places long-term health and economic demands on health care systems as the population ages. This course will provide students with the opportunity to study specific issues related to chronic disease epidemiology and management and their links to practice.
Prerequisite(s): A minimum grade of "C" in KINS 2531 and KINS 2511.

PUBH 3132 Health Care Systems and Advocacy
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces students to the background and development of administrative settings for health care delivery in the United States by exploring trends and issues based on current health and medical care programs and practices and analyzing the current organizational structure of medical care services in the United States. Topics to be examined include the medical care process, factors affecting supply and distribution of health professionals and health facilities, health care costs, and financing of care through health insurance and governmental programs. Students will also learn health advocacy skills to plan community-based interventions.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3136 Principles of Environmental Health
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course examines health issues, scientific understanding of causes, and possible future approaches to control the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3138 Multicultural and Social Determinants of Health
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces the characteristics, causes, and effects of health disparities in the U.S. Health Care System. It also provides students with a foundation to develop the knowledge, attitudes, and skills to become culturally competent health educators. The course explores how health education and promotion is shaped by the cultural, social and economic contexts in which individuals function.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3231 Epidemiology and Biostatistics
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces the student to the principles and practice of epidemiology and biostatistics. Students will be exposed to the historical development of epidemiology, concepts of causality, definitions of health and disease, and sources of community health data. Current principles and practices in the cause, prevention and control of diseases in various community settings will be emphasized.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3232 Foundations of Health Education and Promotion Practice
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course provides junior and senior level majors with a colloquium to discuss current issues and topics in health promotion and education including philosophical foundations and principles underlying the field of health promotion and education practice, the Certified Health Education Specialist Competencies, organizations, scientific foundations, and employment potential.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3330 Modifying Health Behaviors
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course examines the major theoretical models used in public health practice for modifying health behavior. The efficacy of interventions in relation to current practices in public health, best practices and applications of theory-driven health behavior change are studied within the context of community-based settings. The focus of the class is to identify the critical factors necessary to create health behavior change in order to address the current Healthy People goals and objectives.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 3331 Stress Theory and Management in Health Promotion
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course explores contemporary issues in human sexuality and prepares future health professionals to conduct sexuality education with diverse populations in a variety of settings (i.e., school, community, or workplace). Content is intended to help students increase their knowledge of sexuality, improve their ability to educate and promote sexual health and develop skills to increase their comfort level in discussing human sexuality.

PUBH 3430 Sexuality Education
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces the broad and growing field of global health. The course will discuss how health and illness is defined and explore the biological, cultural, social, and political forces that influence health at the global level. This is a survey course that will explore such topics as: comparative health systems, social determinants of health, health services and quality, healthcare policy, key stakeholders, and major global health initiatives. Throughout the course, an emphasis is placed on global health ethics and issues of social justice.
Prerequisite(s): Sophomore standing.

PUBH 3431 Introduction to Global Health
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course introduces the broad and growing field of global health. The course will discuss how health and illness is defined and explore the biological, cultural, social, and political forces that influence health at the global level. This is a survey course that will explore such topics as: comparative health systems, social determinants of health, health services and quality, healthcare policy, key stakeholders, and major global health initiatives. Throughout the course, an emphasis is placed on global health ethics and issues of social justice.
Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 3431.
PUBH 3531 Consumer Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course prepares individuals to make intelligent decisions regarding
the purchasing and use of health products and services that will have a
direct effect on their health. Allows students to explore the relationships
among consumerism, health and education. Students will investigate
consumerism, marketing and advertising as foundational aspects of
consumer health. In addition, students will survey a variety of health
related products and services to determine the implications and
consequences of their use.
Prerequisite(s): A minimum grade of "C" in HLTH 1520.

PUBH 3611 Health Honors Thesis Seminar I
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
This is a seminar course that prepares students to complete a senior
honors thesis proposal.

PUBH 3612 Health Honors Thesis Seminar II
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
This is a seminar course that prepares students to complete a senior
honors thesis proposal.

PUBH 4090 Selected Topics in Public Health
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.
Allows the student the opportunity to receive specialized and/or focused
instruction in a public health topic not generally offered by the College.

PUBH 4099 Selected Topics in Public Health
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
This course provides the student with in-depth study of selected topics in
public health.

PUBH 4132 Health Education and Promotion Program Planning I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces students to the theory and application of
community-based program planning and evaluation. The first of a two-
course sequence, the focus will be on the development of a health
promotion program plan designed to apply course content to a real-
life health issue. Concepts in community assessment, organization, and
mobilization for the purpose of addressing identified public health concerns
will serve as the foundation for the planning process.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.
Corequisite(s): PUBH 4134.

PUBH 4133 Health Education and Promotion Program Planning II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces students to additional theory and application of
community-based program planning and evaluation. The second of a two-
course sequence, the focus will be on program implementation,
evaluation, and reporting of the health promotion plan developed during
the prior semester. Students will gain first-hand experience in conducting
an evaluation of community health education program.
Prerequisite(s): A minimum grade of "C" in PUBH 4132.

PUBH 4134 Research Methods and Evaluation in Health Education and
Promotion
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces the student to research methods used in health
education and promotion. Examines the rationale and procedure to
evaluate health education/promotion programs. Focuses on several
topics including: research design, methods of program evaluation,
planning research and evaluation, the politics and ethics of evaluation,
measurement, sampling logistics, data analysis and the development of a
student project.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.
Corequisite(s): PUBH 4132.

PUBH 4195 International Studies Abroad in Public Health
3-9 Credit Hours. 3-9 Lecture Hours. 0 Lab Hours.
This course offers students the opportunity to examine public health
practices in a foreign country through travel abroad. Classroom instruction
will be combined with on-site experiences to provide a realistic learning
experience.

PUBH 4230 Global Maternal and Child Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will explore promotion and education efforts designed to
improve the health, well-being, and quality of life for women and children
globally. A review of the historical and contemporary maternal and child
health trends and issues in the United States and throughout the world will
be examined. Identifying the determinants of health and illness including
the biological, behavioral, socio-economic, demographic, cultural and
health care systems influences on maternal and child health will be central
to the course.
Prerequisite(s): Sophomore standing and a minimum grade of "C" in
PUBH 2131 or PUBH 3431.

PUBH 4231 Health Aspects of Aging
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course examines the aging process from a health education
perspective. Students will become acquainted with the process of and
problems associated with aging in order to effectively manage this
important public health issue. Knowledge and understanding of biological,
psychological, and sociological aspects of aging as related to health and
wellness will also be addressed.

PUBH 4232 Global Environmental Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course provides students with an overview of global environmental
health challenges in 21st century. Regional and global impact of
environmental health hazards will be compared at the systems level.
Current topics in global environmental health will target new challenges
faced under the changing climate and emerging diseases. International
environmental health policies will be compared with local practices.
Prerequisite(s): Sophomore standing and a minimum grade of "C" in
PUBH 3431.

PUBH 4233 Topics in Global Epidemiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will introduce students to the field of epidemiology as applied
in a global context. Students will be introduced to basic concepts of
epidemiology as well as an overview of topics across the discipline.
Special emphasis will be made on health issues in the low and middle
income countries, and case studies will be used as examples to illustrate
concepts and topics of epidemiology.
Prerequisite(s): Sophomore standing and a minimum grade of "C" in
PUBH 3431.

PUBH 4234 International Development in Health (Poverty, Social
Justice and Global Health)
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will describe key cultural, social, and economic issues and
methods in global health, and thus provide essential background for
other core courses. The course is interdisciplinary, emphasizing the
fields of anthropology, sociology, public health, global health, and critical
global health studies. This course explores aspects of health inequalities
and demonstrates how the sources of health inequalities (including
globalization, the impact of social, economic, and political systems, the
local and global economy, transnational organizations, culture, race, class,
gender, and sexuality) are rooted in injustices that create and sustain the
conditions that lead to disparities in health status and health care both
domestically and globally.
Prerequisite(s): Sophomore standing and a minimum grade of "C" in
PUBH 3431.
PUBH 4330 Promotional Strategies for Health Programs
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course explores the application of social marketing and communication strategies to enhance health education and promotion programs.
Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 4331 Occupational Health in Public Health Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course provides an overview of the key issues and practices related to workplace hazards in public health practice. Students will be introduced to workplace hazards in public health practice. Students will be introduced to the concepts of environmental epidemiology, toxicology, preparedness, disease management, prevention, and health promotion in occupational settings that both workers and the public are impacted. The course covers primary methods of pollutant exposure assessment, basic understanding of environmental toxicology, health effects of chemical, biological, and physical agents in a variety of facilities from agricultural, to service industry, private sector to healthcare settings. Students will also be introduced to safety regulations in these settings.

PUBH 4332 Environmental Health Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces students to applied environmental health sciences. Emphasis is placed on hands-on, practical experiences provided by experts/practitioners in the field. This course is expected to prepare students for employment opportunities related to food safety and hygiene; emerging vector-borne diseases; industrial hygiene; and environmental health inspections including restaurants, hotels, and healthcare facilities, recreational environments, and waste management.

PUBH 4333 Public Health Aspects of Vector-borne Diseases: Control and Prevention
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course provides an overview of common vector-borne diseases, discusses public health preventive practices, and introduces students to the concepts of the planning, design, implementation and management of control of vector-borne infectious diseases.

PUBH 4334 Food Safety and Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course provides a comprehensive overview of food safety and its implications to public health. Specific areas of emphasis include the historical perspectives and current trends pertinent to food safety issues, etiology and assessment of food-borne illness, food contamination and related public health concerns, and strategies for the prevention of food-borne illness. This course will also provide students the opportunity to get certified in ServSafe, a nationally recognized food safety training program. Students will also be required to prepare food under the supervision of the instructor.

PUBH 4611 Hlth Honors Thesis Seminar III
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
In a seminar setting, students will continue writing and revising their thesis. This course provides the student with the opportunity to revise manuscript proposal based upon previous work in Honors Thesis Seminar I and II. Students will be guided through primary data collection and analysis. Students will also complete writing the first draft of the Research Manuscript adhering to current APA style manual.

PUBH 4612 Hlth Honors Thesis Seminar IV
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
Students will complete an Honors Research thesis and successfully defend their original research project to their Research Director and Research Committee. Revisions to the Honors thesis will be based upon feedback from the oral defense. To demonstrate proficiency in oral research presentation, students will present their original research at the Honor's Research Symposium and Phi Kappa Phi Research Symposium. Finally, students will be required to submit the final Research Manuscript for publication in a professional format.

PUBH 4798 Internship in Public Health
12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.
This course provides the senior level Public Health majors with a practical experience in an appropriate practice setting. Students must complete all course work in the Public Health major prior to enrolling in this course.

PUBH 4890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.
Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

PUBH 5520 Introduction to Public Health
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.
This course is designed to give students a foundation in the core functions of population-based public health (assessment, policy development and assurance). In addition, this course will examine the 10 essential services of public health within these core functions. Defining effective public health practice and providing knowledge about the technical, social, and political parameters related to public health research and practice are goals for this class. Students will gain an understanding of public health as a broad area of work that applies the benefits of current biomedical, environmental, social, and behavioral knowledge in ways that maximize the health status of all populations.
Cross Listing(s): PUBH 5520G.

PUBH 5520G Introduction to Public Health
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.
This course is designed to give students a foundation in the core functions of the population-based public health (assessment, policy development and assurance). In addition, this course will examine the 10 essential services of public health within these core functions. Defining effective public health practice and providing knowledge about the technical, social, and political parameters related to public health research and practice are goals for this class. Students will gain an understanding of public health as a broad area of work that applies the benefits of current biomedical, environmental, social, and behavioral knowledge in ways that maximize the health status of all populations.
Cross Listing(s): PUBH 5520.

PUBH 6532 Environmental Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is a survey of specific environmental conditions and factors that contribute to the development of health problems in communities. Health effects, policy issues, intervention strategies and control programs for community environmental health protection are discussed.

PUBH 6533 Epidemiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course provides an introduction to many important topics in epidemiology for public health practice, including but not limited to the evolution of the discipline, causal concepts in the natural history of disease, critical features of infectious and chronic diseases, elements of public health screening, basic measures used in epidemiology, design of epidemiologic investigations, consideration of random error and systematic bias, calculation and interpretation of confidence intervals and p values, discussion of confounding and interaction, criteria for evaluation of cause and effect relationships and the implications for ethical public health practice. Students are expected to gain a foundation for the application of epidemiologic methods for exploration of the causes and conditions that influence the origin, propagation, mitigation, and prevention of diseases in population health.
**PUBH 6534 Health Policy and Management**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides a comprehensive introduction and overview to public health management and administration. The course context is based on managerial decision making and the practical knowledge, tools, processes and strategies required by organizational management. This course overviews the basics of administration, including public health law, human resources management, budgeting and financing, health information management, performance measurement and improvement, ethics, leadership, communication, media relations, and legislative relations in public health; introduced as processes are strategic planning, program development and evaluation, budget preparation, and constituency building for collaboration. Emerging areas of public health policy and management are also discussed as contexts to apply practical knowledge, tools and strategies.

**PUBH 6535 Social and Behavioral Sciences and Public Health**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to familiarize students with the history and current applications of social and behavioral sciences as they are applied to public health practice and research. It explores social and behavioral science models, theories, and approaches that inform public health, and their philosophical roots. The course also examines social and behavioral determinants of health equity across the ecological spectrum. Emphasis is placed on critical thinking skills to help students synthesize and utilize information in research and practice. An important contribution of this course is the emphasis on recognizing the contributions of social and behavioral science research and practice to enhanced public health.

**PUBH 6541 Biostatistics**

4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

This course examines statistics in public health and related health sciences, including sampling, probability, basic discrete and continuous distributions, descriptive statistics, hypotheses testing, confidence intervals, categorical data analysis, regression, and correlation. Emphasis will be on the development of critical thinking skills and health data analysis applications with computer software.

**Cross Listing(s):** BIOS 6541.

**PUBH 7090 Selected Topics in Public Health**

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

**PUBH 7530 Integrated Capstone Experience**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course serves as a culminating experience designed to promote refinement of the hard and soft skills necessary for the public health workforce. Throughout the semester, students acquire skills in the integration of basic public health concepts and refine the application of discipline specific knowledge. This course relies on a case-based format that promotes problem solving and critical thinking in the context of real world public health problems.

**PUBH 7790 Practicum in Public Health**

1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Permits the student to receive practical experience in a selected public health-related setting.

**Prerequisite(s):** Permission of instructor.

**PUBH 7890 Directed Individual Study**

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Permits the student to receive practical experience in a selected public health-related setting.

**PUBH 7899 Thesis**

1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Requires the completion of an independent research project in the preferred field requiring the defense of the design, methods, analysis, and interpretation of the data. MPH Students may register for more than 3 credits of PUBH 7899 while working on their Capstone Research Project, but only 3 credits of PUBH 7899 may be applied toward the degree requirements. Excess PUBH 7899 credits cannot be used for electives or required coursework. Extra (greater than 3) credits of PUBH 7899 will simply increase the number of credits the student earns to more than 45.

**PUBH 8132 Environmental and Occupational Health**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to reinforce basic concepts of environmental and occupational health. Students will be exposed to the current impact of potential environmental and occupational health and safety hazards. Students will also be exposed to current concepts associated with environmental and occupational regulatory standards, assessment protocols, sampling and monitoring techniques, and remediation strategies.

**PUBH 8133 Advanced Epidemiology**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth integration of advanced epidemiology concepts designed to reinforce epidemiological principles, as well as build a foundation for epidemiologic research in public health practice. Specific course content includes theory, methods, and applications for epidemiologic studies including random and systematic error, confounding, counterfactuals, causal inference, effect modification, internal and external validity and advanced study design. Emphasis will also be placed on choosing and performing appropriate analytic techniques necessary for biostatistical inference, including estimability and interpretation of effect measures.

**PUBH 8134 Health Economics, Policy and the Political Process**

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Foundational economic and specific health economic theory, trends, market issues, and applications are presented to include health insurance and payment theory, processes, and applications. Comparison between rational and irrational theory is explored. Evolution of health policy, considering past, current and future major legislation and executive directives, are explored within the political process.
This course will explore social and behavioral science theories, models, and approaches that inform public health research and practice, as well as their philosophical foundations. With emphasis on an ecological perspective, students will apply relevant theories to understanding community health issues and to developing interventions. The course also examines social and behavioral determinants of health equity across the ecological spectrum. In this course students will gain an enhanced understanding of the contributions of the social and behavioral sciences to Public Health.

**PUBH 9130 Sampling Methodology**  
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.  
This course focuses on study design and sampling methods as well as data analysis of small and large, national and local health surveys and vital statistics in order to gain experience describing data using effective graphical and numerical methods. Students will use statistical software (SAS) to analyze data originating from various national surveys such as the National Crime Victimization Survey, National Survey of Drug Use and Health, National Assessment of Educational Progress, Behavioral Risk Factor Surveillance System, an NHANES. Students will be introduced to sampling design, methods of data collection, nonresponse, writing and evaluating questions and answers in surveys, survey interviews, processing survey data and principles and practices related to ethical research.  
Prerequisite(s): A minimum grade of "B" in PUBH 6541 or equivalent.

**PUBH 9132 Public Health Perspectives in Community-Based and Translational Research**  
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.  
This course will familiarize students with concepts, issues, and skills relevant to translational research approaches in public health, particularly as it relates to how research is applied across all public health concentrations (epidemiology, behavioral health sciences, management and policy, biostatistics, and environmental health). Emphasis will be placed on utilizing qualitative, quantitative, and mixed methods approaches within an ecological theoretical framework. Students will gain an understanding of the Community-Based Participatory Research (CBPR) approach, as well as issues related to the ethics of community-based research. Students will learn advocacy skills to catalyze community-level intervention and structural change based on research findings.

**PUBH 9134 Professionalism and Ethics in Public Health Practice**  
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.  
This course explores critical issues related to the professional development of public health practitioners and ethical responsibilities necessary to assume leadership roles in the field. Leadership roles include, but are not limited to, recognizing the ecological complexities of factors influencing quality of life for individuals and health status of communities. Students will focus on professional attributes, skills, styles, and strategies required to advance public health goals. In addition, students will examine ethics associated with professionalism, research and public health practice.

**PUBH 9135 Public Health, Funding and Grantsmanship**  
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.  
This course will review the major sources of funding for public health programs, including public and private sources, and the components of successful funding proposals. Students will gain experience in writing funding proposals and creating program budgets. Students will learn appropriate techniques to planning and writing research grants for large-scale and small-scale community projects. As a part of this process, students will learn effective means of locating and soliciting funding agencies responsible for financing public health activity.