Public Health (PUB)

Public Health (PUB) Courses

PUB 1113. Introduction to Public Health. (3-0) 3 Credit Hours.
Introduces students to the discipline of public health. It will cover a variety of disciplines to the basic tenets of public health. The course will provide a history of public health, an introduction to the five core disciplines (Epidemiology, Biostatistics, Environmental Health, Social and Behavioral Health, and Health Policy & Management). The course will also cover the role of public health in a global society. (Same as SOC 1043. Credit cannot be earned for both PUB 1113 and SOC 1043.)

PUB 2113. Data Management in Public Health. (3-0) 3 Credit Hours.
Study of the skills required to design, organize and implement a data management system in public health applications. It will cover an introduction to data preparation for statistical analysis, development of organizational tools, methods of data acquisition, data collection form design, principles of database development, quality control of data, and data security. Application of Microsoft® Access and SAS® software packages in data management will be presented. (Same as SOC 3543. Credit cannot be earned for both PUB 2113 and SOC 3543.)

PUB 3413. Behavioral Epidemiology. (3-0) 3 Credit Hours.
Provides the student with basic knowledge about epidemiological applications in a behavioral area. It covers behavioral and social environmental issues related to disease etiology, premature morbidity and mortality patterns. Provides an overview of the epidemiology of specific health-related behaviors, the relationships between these behaviors and health outcomes, and available evidence for the effectiveness and appropriateness of various approaches to modification of these behaviors. (Same as SOC 4083. Credit cannot be earned for both PUB 3413 and SOC 4083.)

PUB 3514. Foundations of Biostatistics. (4-0) 4 Credit Hours.
Prerequisite: Must be enrolled in the BS/MPH 4+1 program. This course introduces the development and application of statistical reasoning and methods in addressing, analyzing and solving problems in public health. Computer applications are included.

PUB 3523. Social and Behavioral Aspects of Community Health. (3-0) 3 Credit Hours.
Prerequisite: Must be enrolled in the BS/MPH 4+1 program. This course focuses on health problems and issues and public health methods that have a major social or behavioral component. The course will enable students to describe one or two core theoretical perspectives from each of the social science disciplines of psychology, sociology and anthropology, and their application to public health. The course will cover the major social and behavioral science models used in health promotion and disease prevention. The course will also cover existing social inequalities in health status related to race, social class, and gender, and the critical intersection between social risk factors, behavioral risk factors, and the development and implementation of public health interventions.

PUB 3533. Overview of Environmental Health. (3-0) 3 Credit Hours.
Prerequisite: Must be enrolled in the BS/MPH 4+1 program. This survey course provides students with an awareness of how the man-made and natural ecosystem interact to affect health and the quality of life. Areas of emphasis are population dynamics, global environmental health problems, toxicology, food, air and water quality, occupational health, radiation, noise, and solid and hazardous waste.

Prerequisite: Must be enrolled in the BS/MPH 4+1 program. This course surveys theory and practice in the management and policy sciences applied to the field of public health. Topics include: public health in the U.S. health system/ legal bases of public health; public policy institutions and decision-making processes; methods of policy analysis, public sector institutions, management and decision-making; and private sector health care institutions, management and decision making.

PUB 3553. Fundamentals of Epidemiology. (3-0) 3 Credit Hours.
Prerequisite: Must be enrolled in the BS/MPH 4+1 program. This course reviews epidemiologic principles and concepts, the vocabulary of epidemiology, methods of epidemiologic investigation, and the design, interpretation, and evaluation of epidemiologic research. The emphasis is on public health practice of epidemiology.

PUB 3613. Etiology 1: Epidemiologic Methods to Investigate Outbreaks and New Epidemics. (3-0) 3 Credit Hours.
Utilizes case discussion seminars to appraise the investigative methods and research designs for studying disease outbreaks and new epidemics. Historical and current cases will include examples of disease outbreaks (e.g., food borne illness, hospital infections), emergence of new diseases, or epidemics related to specific exposures (e.g., natural disasters). Each case will evaluate the background of the problem, the investigative methods employed, the results, and the interventions taken to resolve the problem.

PUB 4613. Etiology 2: Epidemiologic Methods to Investigate Chronic Disease, Exposure, and Risk. (3-0) 3 Credit Hours.
Utilizes case discussion seminars to appraise the investigative methods and research designs for studying chronic disease, disease exposure, and ascertainment of risk. Cases will include current examples of chronic diseases or conditions affecting population health (e.g., cardiovascular disease, diabetes, and obesity), methods for ascertaining outcomes (e.g., death certificates), and measures of risk association (e.g., standardized mortality ratios and relative risk). Each case will evaluate the background of the problem, the investigative methods employed, the results, and the public policy and practice implications from the research.

PUB 4913. Independent Study. (0-0) 3 Credit Hours.
Prerequisites: Permission in writing (form available) from the instructor, the student’s advisor, the Department Chair, and Dean of the College in which the course is offered. Independent reading, research, discussion, and/or writing under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, will apply to a bachelor’s degree.

PUB 4933. Public Health Internship. (0-0) 3 Credit Hours.
Prerequisites: Senior standing and completion of SOC 1043, SOC 4073, and SOC 3543. Provides the opportunity for work experience in a private or public health-related agency. Opportunities are developed in consultation with faculty advisor and on-site coordinator. Internship must be approved in advance by the Internship Coordinator and the student’s internship faculty advisor. Supervised full-or part-time off-campus work experience and training in health care management. A minimum of 150 hours of work experience is required. Individual conferences and written reports required. May be repeated for credit but not more than 6 hours of internship will apply to a bachelor’s degree.
PUB 4936. Public Health Internship. (0-0) 6 Credit Hours.
Prerequisites: Senior standing and completion of SOC 1043, SOC 3543, and SOC 4073. Provides the opportunity for work experience in a private or public health-related agency. Opportunities are developed in consultation with faculty advisor and on-site coordinator. Internship must be approved in advance by the Internship Coordinator and the student’s internship faculty advisor. Supervised full-or part-time off-campus work experience and training in health care management. A minimum of 300 hours of work experience is required. Individual conferences and written reports required. Not more than 6 hours of internship will apply to a bachelor’s degree.

PUB 4953. Special Studies in Public Health. (3-0) 3 Credit Hours.
Prerequisite: Consent of instructor. Organized course offering the opportunity for specialized study in an area of health not available as part of the regular course offerings. Special Studies may be repeated for credit when topics vary, but not more than 6 semester credit hours, regardless of discipline, will apply to a bachelor’s degree.