



School of Nursing and Health Studies

## Minor in Public Health

**Community Members:** Earn college credit for courses by applying through the admissions office. To enroll in any of the courses below as a visiting student, complete the “Community Student” application online:

<https://www.umkc.edu/apply/visiting.cfm>

**Please note: As of Fall 2018, all courses must be completed with a grade of “C-“ or higher for minor credit.**

### Required Courses to earn Minor in Public Health:

21 Credit Hours:

PBHL 158 Public Health Principles

HLSC 345 Quantitative Analysis

PBHL 358 Environmental Public Health

HLSC 410 Epidemiology

HLSC 440 Policy and Ethics in Health

PBHL 445 Core Competencies in Health Education

PBHL 458 Communicable Disease Investigation

### Course Descriptions

#### AVAILABLE ONLINE Fall & Spring

##### **PBHL 158 Public Health Principles- 3 credit hours**

This course will introduce the student to the core functions of public health, the ten essential services, core public health competencies, and the difference between population-based and individual health services. Through case studies and practice-related exercises, students will examine current health trends and issues applying a public health perspective.

**Prerequisites:** None

#### AVAILABLE ONLINE and ON CAMPUS Fall & Spring

##### **HLSC 345 Quantitative Analysis - 3 credit hours**

This course focuses upon the skills required for the utilization of scientific findings in evidence-based care. The conceptual basis of descriptive and inferential statistics found in the properties of the normal distribution comprise the core of these skills. Using the normal distribution as a structure for understanding descriptive and inferential procedures, the course presents information necessary to the selection, computation and interpretation of basic statistics relevant to evidence-based care in the health sciences. Discussions of variables, measurement and tabular and graphic presentation of data precede the development of computation skills.

**Pre-requisites:** MATH 110 or Higher

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**AVAILABLE ONLINE Fall Only****PBHL 358 Environmental Public Health- 3 credit hours**

In this course, students will explore environmental factors affecting public health. Students will be introduced to public health and the food industry, vector control and disease, chemical and biological hazards found in the environment, and their impact on population health. During the course students will learn how environmental health policy decisions have the potential to impact the health of the population.

**Pre-requisites:** PBHL 158 Public Health Principles

**AVAILABLE ON CAMPUS Fall & Spring      ONLINE Spring****HLSC 410 Epidemiology – 3 credit hours**

This course is an introduction to epidemiology with an emphasis on applications in public health. Students will learn the basic principles of epidemiology, including the relationship of biostatistics to epidemiology and public health, methods of disease investigation, epidemiological study designs and their uses and measures of effects. Through the course, students will be able to apply measures of disease incidence and prevalence, determine crude and adjusted rates, and explain the uses of screening tests and criteria for their evaluation, including measures of validity. The class will explore ways that epidemiology is used in environmental health and social sciences, as well as applications in molecular and genetic epidemiology.

**Pre-requisites for current BHS students pursuing Minor:** HLSC 101, PBHL 158 and HLSC 345

**Pre-requisites for students pursuing Minor in Public Health or Community Students:** PBHL 158 Public Health Principles

**AVAILABLE ON CAMPUS Fall & Spring      ONLINE Spring****HLSC 440 Policy and Ethics in Health - 3 credit hours**

This course distinguishes biomedical ethics from public health ethics, highlighting the driving principle of justice in public health policy. Historical and present ethical issues will be explored within a variety of health based organizations and settings. The relationship of how ethics drives policy decisions and improves health outcomes will be discussed. The course will also examine how health policy is created in relationship to core ethical theories and public health justifications.

**Pre-requisites for current BHS students:** HLSC 101, PBHL 158 and HLSC 300

**Pre-requisites for students pursuing Minor in Public Health or Community Students:** PBHL 158 Public Health Principles

**AVAILABLE ONLINE Spring Only****PBHL 458 Communicable Disease Investigation- 3 credit hours**

This course will introduce students to communicable disease control and investigation. Throughout the course, students will learn how to identify outbreaks, explore disease investigation tools, and identify disease causes. Students will investigate the spread of disease among humans, animals, and the environment. The history of disease containment, evolution of disease control, and specific interventions developed to protect the public will be explored.

**Pre-requisites:** PBHL 158 Public Health Principles and HLSC 410 Epidemiology