

University of Missouri – Kansas City

School of Nursing and Health Studies

*HLSC 158 –Principles of Public Health - 3 credit hours*

*Spring 2019*

### **Course Description:**

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 exam current health trends and issues applying a public health perspective.

**Pre-requisites:** None

### **Objectives:**

Upon completion of this course the student will be able to:

1. Discuss key terms, functions, major concepts and scientific basis of public health.
2. Explain the three core public health functions, as defined by the Institute of Medicine.
3. Distinguish between primary prevention and primary care.
4. Examine current public health competencies, core functions, and ten essential services.
5. Compare the delivery of public health services by governmental and non-governmental agencies.

### **Course Attributes:**

Undergraduate; Blended Instruction

Public health requires individuals to critically think, identify key indicators that impact health, develop interventions to combat exposure, and continually improve health status for all populations. The course will use short lectures, case study discussions, in-class hands-on application, writing assignments, and presentations to meet the learning objectives. You will conduct research by collecting and analyzing data, and presenting your results to your peers and others.

## Required Text:

Social Science Research: Principles, Methods, and Practices. Bhattacharjee, 2012.

<https://open.umn.edu/opentextbooks/textbooks/social-science-research-principles-methods-and-practices>

Field Trials of Health Intervention: A Toolbox. Smith, Marrow, & Ross, 2015.

<https://open.umn.edu/opentextbooks/textbooks/field-trials-of-health-interventions-a-toolbox>

## Learning Experiences and Evaluation:

Attainment of the course objectives/competencies will be based on the following:

### Time Commitment:

Courses can be varied in their design and expectations for student involvement and time. This course requires to be in class (engaged in lecture and discussion) for approximately 3 hours/week and spend additional time outside of class in preparation for active course engagement and course assessment (reading, completing assignments).

### Attainment of course objectives will be determined based upon the following:

Attendance and Participation	100 points
Data Collection	100 points
Analysis	100 points
Presentation	100 points
Mid Term Exam	100 points
Final Exam	100 points
<b>Total points</b>	<b>600 points</b>

<b>Letter Grade</b>	<b>% Min</b>	<b>% Max</b>
A	94	100
A-	90	93
B+	87	89
B	84	86
B-	80	83
C+	77	79
C	74	76
C-	70	73

D+	67	69
D	64	66
D-	60	63
F	0	59

Please note that final grades will not be adjusted. No rounding will be conducted at the end of the semester.

### Attendance and Participation:

Attendance includes in-class attendance, course work participation, and exams. Being on time, staying from the beginning to the end of class, being prepared with the current weeks reading(s) or assignment(s), and respecting classmates and professor all count toward attendance. Attendance is worth **100 points toward the final course grade**; it is subjective, and depends on student participation during class discussions, attendance, and performance on unannounced in-class assignments. Active attendance and participation is expected each week. **There will be four in-class quizzes throughout the semester that will account for 50 points toward your attendance and participation grade.**

Students who text during class, talk at inappropriate times, use technologies such as Snapchat, Facebook or other online chat programs, or are non-attentive or distracting to their peers will **lose all points** for attendance. If you are experiencing an emergency and require your phone for external emergency communication, please visit with your Professor to make arrangements before the start of class. Excused absences include severe illness of student (requiring medical care and doctors note), religious observance where the nature of the observance conflicts with scheduled class time, representation of UMKC in an official capacity, or other compelling circumstance beyond the student’s control. Additional information can be found here:

<http://www.umkc.edu/provost/policy-library/documents/AttendancePolicy.pdf>

### Research:

At the most basic level, public health has always been the implementation and dissemination of research. The goal of public health is to promote and protect the health of people and communities. It is widely accepted that health outcomes are due to factors in the social or physical environments, like toxins, inequality, and disease, that cause differences in health status. However, exposure to harmful environmental factors are not evenly distributed among all populations. Identifying key determinants of health and understanding how those change health outcomes for unique populations is both research and public health. Public health practitioners continually use research to improve the health of the populations that they serve. To better prepare you for a career in Public Health, you will learn in an environment that teaches a foundational skill set to conduct and use research techniques to solve complex problems. By providing these opportunities, you will be better prepared to disseminate research results to fellow public health practitioners and the populations you will be serving.

### Data Collection:

You will be responsible to go into the community to collect public health data. You will use GIS, surveys, and other methods to aid in this project. During the first week of the semester, you will be provided with all the details of data collection. This is worth 100 points toward your final grade. You will be evaluated on how you work together as a team, the completeness and accuracy of your data collection, and your interaction with the community that you are assessing.

### Analysis:

You will be responsible to analyze national-level data using means, variance, and other basic statistics in Microsoft Excel, R Studio, and other statistical packages. You will also have to create graphs and figures that show the outcomes of your data. This is worth 100 points toward your final grade. You will be evaluated on the completeness of your analysis, how well you can interpret the data, and how well you can present the data in charts, graphs, and written communication.

### Presentation:

Toward the end of the semester, you will present your results at the Annual Symposium of Undergraduate Research and Creative Scholarship. This will be worth 100 points toward your final grade. You will develop a poster with the results from the semester and present those results verbally to your peers, faculty, and other members of the university community. You will be evaluated on how well you communicate your results and the impact of those results.

### Exams:

A total of two major exams will be administered over the course content. Each exam is worth 100 points each or a total of 200 points of the course grade.

### Schedule:

<b>Week</b>	<b>Dates</b>	<b>Topic</b>	<b>Project</b>	<b>Evaluation</b>
1	Jan 22, 24	Introduction	CITI Training	
2	Jan 29, 31	Public Health vs Clinical Care	Project Start, Develop question	
3	Feb 5, 7	Organizations	Literature Review	
4	Feb 12, 14	Core Services	Finding dataset/variables	
5	Feb 19, 21	Environmental Health	Work session	
6	Feb 26, 28	Environmental Health		Analysis

7	Mar 5, 7	Reportable Diseases	Work session	
8	Mar 12, 14	Reportable Diseases	Draft of poster due	
9	Mar 19, 21	Midterm Week		Midterm Exam
	Mar 26, 28	Spring Break	Poster due for printing	
10	Apr 2, 4	Prevention	Practice Presentations	
11	Apr 9, 11	Prevention	Undergrad Research Symposium	Presentation
12	Apr 16, 18	Chronic Disease	Intro to data collection	
13	Apr 23, 25	Epidemiology	Work session	
14	Apr 30, May 2	Big Data		Data Collection
15	May 7, 9	Public Health Careers		
16		Finals Week		Final Exam

## Resources and Policies Statements:

Important UMKC Resources and Policies are applicable to every course and every student at UMKC. These are located in the Canvas/Blackboard site for this course by clicking the Help question mark on the left side of the screen, and then selecting 'UMKC Resources and Policy Statements'. As a UMKC student, you are expected to review and abide by these policies. If you have any questions, please contact your instructor for clarification. This course follows the "Faculty allowing recording" option of the Academic Inquiry, Course Discussion and Privacy policy. OR This course follows the "Faculty not allowing recording" option of the Academic Inquiry, Course Discussion and Privacy policy.

## Recording:

This course follows the "Faculty allowing recording" option of the Academic Inquiry, Course Discussion and Privacy policy.

## Office Hours and Email Policy:

Due to resource constraints, I will only respond to email on Tuesday and Thursday. Please plan accordingly when needing assistance with assignments, exams, and final grade. Office hours will be Tuesday/Thursday 9-10 am in HSB 2401.

## Honor Code:

You will be held to the School of Nursing and Health Studies Honor Code. Violations of the Standards of Professional and Ethical Behavior will be handled according to the procedures listed here:

<https://catalog.umkc.edu/special-notice/academic-honesty/nursing-honor-codes/>