

NEW DEGREE PROGRAM PROPOSAL

Sponsoring Campus: University of Missouri- Kansas City
College or School: School of Nursing and Health Studies
Program Title: Bachelor of Science in Public Health
Degree: BS
Options (emphasis areas):
Delivery Site(s): On Campus and Online
CIP Classification: 51.0000
Implementation Date: August 2017
Expected Date of First Graduation: May 2020

Author of Proposal: Dr. Joy Roberts (Assoc. Dean, School of Nursing and Health Studies)

Name and Phone Number of Person to Contact for More Information:

Dr. Joy Roberts - 816-235-6414

Individual(s) Responsible for Success of Program:

Dr. Ann Cary (Dean, School of Nursing and Health Studies)

Dr. Joy Roberts (Assoc. Dean, School of Nursing and Health Studies)

Bachelor of Science Public Health

University of Missouri-Kansas City

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Executive Summary

The proposed Bachelor of Science in Public Health (BSPH) is designed to respond to national and local demand for new graduates prepared in public health, particularly in urban health settings. The Association of Schools and Programs in Public Health (ASPPH) representing more than 100 Council on Education for Public Health (CEPH) accredited schools and programs of public health has set forth priorities to make public health a national priority. This governing body advocates for government support and funding to advance research, training, and action necessary to protect and promote health for all our citizens. (ASPPH, 2016)

A Bachelor of Science in Public Health program will provide a focused major for undergraduate students interested in public health, and will reach an extended audience of community members or current employees in the public health field for continuing education credits. This degree will fulfill all requirements for accreditation by the Council on Education for Public Health, as well as provide options for students to take specific courses in urban planning and criminal justice in an effort to respond to growing and contemporary trends in public health practice.

The School of Nursing and Health Studies (SoNHS) is well positioned to offer this degree as it builds upon an existing Bachelor of Health Sciences degree, and aligns with our mission to prepare outstanding health professionals to succeed in an era of growth, change and collaboration. With a large number of health related courses already offered within the Bachelor of Health Sciences and Bachelor of Nursing programs, only 12 hours of additional public health focused courses will be required to fully develop the Bachelor of Science in Public Health program. Public health operates at the scale of entire communities or populations and is highly effective, safe, and cost efficient. Public health is “the science and art of preventing disease, prolonging life, and promotion health” (ASPPH, 2016). This is in direct contrast to clinical professions such as medicine, which focuses primarily on treating illness that has already occurred. The ultimate focus of public health is to promote community wellness, health care equity and accessibility and quality of life. As the population in the Kansas City metropolitan area and Missouri changes, the need for more educated public health professionals increases. The SoNHS is well positioned to offer this program with a diverse and knowledgeable faculty, and deeply rooted community partnerships and collaborative relationships in Kansas City.

The SoNHS at UMKC introduced a Minor in Public Health during the fall of 2015, to help address local employment needs, and to respond to student interest in furthering their knowledge in this field. From fall 2015 to fall 2016, the minor grew in enrollment from twenty-six students to thirty-five students, exceeding original enrollment projections. With the combined need for a changing workforce, and the demand and interest from undergraduate students, there is sufficient evidence to build upon the Minor in Public Health and create a Bachelor of Science in Public Health. This new program will likely act as feeder program to the cooperative Master of Science in Public Health program currently in place between the University of Missouri and UMKC.

In September 2016 more than 270 employment openings nationally were advertised on the Public Health Jobs (publichealthjobs.org) website, with over 200 public health related jobs in the metro Kansas City area listed on careerbuilder.com. There are no signs of these employment trends slowing and US public health agencies are experiencing ongoing workforce shortages. This situation is expected to worsen with “26% of state public health workers being eligible to retire by 2016” (Yeager et al, 2015). National data suggest that undergraduate public health education is one way to provide access for

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health professions students to address the growing gap in supply and demand for a public health workforce. (ASPPH, 2016).

The Bachelor of Science in Public Health program within the SoNHS builds upon existing infrastructure in the Bachelor of Health Sciences program, and the Bachelor of Science in Nursing program, utilizing 48 existing credit hours along with 12 credit hours of new courses. The financial viability projections for this program were determined with the direct assistance of UMKC Chief Financial Officer Sharon Lindenbaum. The long-standing, robust relationships between the SoNHS and Kansas City community-based organizations, community health centers, public health departments, and many social justice-focused organizations will ensure success. It is economically feasible to build-out the student enrollment by initially utilizing existing program advisors and faculty, and determining need for expansion based on enrollment.

1. Introduction

According to Council on Education for Public Health (ACEPH, 2016), the accrediting organization for undergraduate public health education, the requirements for the public health major provide instruction in specific domains. In keeping with the ACEPH requirements, the UMKC SoNHS BSPH curriculum addresses these domains through any combination of learning experiences throughout the requirements for the major or concentration coursework via both existing and new courses (i.e., the program may identify multiple learning experiences that address a domain—the domains listed below do not each require a single designated course)

- the history and philosophy of public health as well as its core values, concepts and functions across the globe and in society
- the basic concepts, methods and tools of public health data collection, use and analysis and why evidence-based approaches are an essential part of public health practice
- the concepts of population health, and the basic processes, approaches and interventions that identify and address the major health-related needs and concerns of populations
- the underlying science of human health and disease including opportunities for promoting and protecting health across the life course
- the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities
- the fundamental concepts and features of project implementation, including planning, assessment and evaluation
- the fundamental characteristics and organizational structures of the US health system as well as the differences in systems in other countries
- basic concepts of legal, ethical, economic and regulatory dimensions of health care and public health policy and the roles, influences and responsibilities of the different agencies and branches of government
- basic concepts of public health
- specific communication, including technical and professional writing and the use of mass media and electronic technology.

The overall undergraduate curriculum and public health major curriculum will expose students to concepts and experiences necessary for success in the workplace, further education and life-long learning. Students will be exposed to these concepts through any combination of learning experiences and co-curricular experiences. These concepts include the following:

- advocacy for protection and promotion of the public's health at all levels of society
- community dynamics
- critical thinking and creativity
- cultural contexts in which public health professionals work
- ethical decision making as related to self and society
- independent work and a personal work ethic
- networking
- organizational dynamics
- professionalism
- research methods
- systems thinking

- teamwork and leadership

From the Public Health Jobs website (publichealthjobs.org), career paths and specific titles in public health, for students with an undergraduate degree in public health include:

- grant coordinators
- community health workers
- research coordinators
- health services coordinators
- public health managers
- emerging infections program data managers
- public health advisors
- asthma education coordinators
- compliance specialists
- infection preventionists

Local Kansas City public health departments (Kansas City Health Department, Wyandotte County Health Department, Independence Health Department and others) have expressed the need for entry-level community health positions to be filled by students with an undergraduate degree in public health. They confirm that it will enhance their departments and their ability to cross-train new employees in a variety of public health domains.

The SoNHS at UMKC introduced a Minor in Public Health during the fall of 2015, to help address employment needs, and to respond to student interest in furthering their knowledge in this field. From Fall 2015 to Fall 2016, the minor grew in enrollment from twenty-six students to thirty-five students, exceeding original enrollment projections. Students pursuing the minor are majoring in Health Sciences, Nursing, and programs outside of the SoNHS.

Bachelor of Science in Public Health programs have only recently become available in most areas of the country. In the past only the Master of Public Health degree was available, with students first obtaining an undergraduate degree in an area of health, science or perhaps business. UMKC wishes to take advantage of this paradigm shift.

The Bachelor of Science in Public Health will fulfill all requirements for accreditation with the Council on Education for Public Health, as well as provide specific options for courses in urban planning and criminal justice in an effort to respond to growing and contemporary trends in public health practice. The School of Nursing and Health Studies (SoNHS) is well positioned to offer this degree as it builds upon an existing Bachelor of Health Sciences degree, and aligns with our mission to prepare outstanding health professionals to succeed in an era of growth, change and collaboration. The Kansas City area has a significant health care environment. UMKC has the Hospital Hill campus, which houses the School of Nursing and Health Studies, School of Pharmacy, School of Dentistry and School of Medicine, with the Kansas City Health Department, Children's Mercy Hospital and Truman Medical Center also located on Hospital Hill. Kansas City's health and biosciences corridor is rapidly developing, with the presence of health information technology giant Cerner, the Stowers Institute for Medical Research and MRI Global Research Institute.

Joy Roberts, Associate Dean of the School of Nursing and Health Studies will be leading the implementation and ongoing evaluation of the program. There are plans to hire a program director who

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will meet the criteria established for accreditation from the Council on Education for Public Health. This includes, "a full-time faculty member with educational qualifications and professional experience a public health discipline." (CEPH, 2016).

2. Fit With University Mission and Other Academic Programs

The SoNHS's proposed BSPH degree fits well with UMKC's vision and mission. UMKC's vision includes building a dynamic undergraduate population, a highly diverse faculty, staff and student body, and active engagement with its city and region. The BSPH program will not only attract new students to UMKC who are seeking a public health undergraduate degree, but it will also be desirable for attracting diverse faculty with specialization in public health. UMKC's mission is to lead in life and health sciences; to develop a professional workforce and collaborate in urban issues and education; and to create a vibrant learning and campus life experience. A public health undergraduate degree will further complement these objectives by graduating critical thinkers with practical experiences from required volunteering, service learning, and interning within the Kansas City community.

2.A. Alignment With Mission and Goals

UMKC's mission is to lead in life and health sciences; to deepen and expand strength in the visual and performing arts; to develop a professional workforce and collaborate in urban issues and education; and to create a vibrant learning and campus life experience.

The BSPH program aligns with the University goals to lead in the life sciences by responding to the needs within the changing public health workforce. Our students will participate in the community, and have the opportunity to make linkages with our urban planning department, ultimately advancing urban engagement. The BSPH program will place student success at the center, by following our standards of offering comprehensive advising, practical experiences, and strong relationships with a caring faculty.

2.B. Duplication and Collaboration Within Campus and Across System

The University of Missouri-Columbia (MU) has proposed an undergraduate public health degree. On July 5, 2016, Dean Ann Cary and Dean Kristopher Hagglund discussed both program proposals and determined that no conflicts between the proposed programs are anticipated. While the degree programs are similar, the MU program has a generalist focus, while the UMKC program has a focus on urban health. In addition to reaching out to new incoming undergraduate students, UMKC will market available courses to current public health employees who are requiring degree completion, or continuing education opportunities in their field. Each program is built within current university, school and department infrastructure to gain efficiency of operations. As described in each proposal, the market demand for graduates is significant. There will be little to no competition for jobs/careers from graduates from both campuses. Both programs have support from their local public health departments/institutions.

Both programs will have required and elective courses offered on-campus and in online formats. The programs will allow their students to enroll in online courses offered by the other institution and transfer credits as appropriate. This will be particularly helpful to students who need adjustments to course sequencing and to students who desire specific elective courses to meet their unique interests.

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Both programs will remain in regular contact with one another, to share experiences, collaborative opportunities and programming ideas.

For future collaborative opportunities, the UMKC School of Nursing and Health Studies is pursuing the formation of a Society of Public Health Education (SOPHE) Midwest chapter and has invited the MU School of Health Professions to join in its inauguration. In addition, for students who decide to continue graduate studies in public health, MU and UMKC collaborate to provide the MU MPH degree.

In our recent history, UMKC developed and implemented of Bachelor of Health Sciences degree at UMKC, when a similar degree was already in existence at University of Missouri-Columbia. Our campuses have never been in competition with this degree, have seen solid and steady enrollment in both programs, and we expect a similar result with an undergraduate public health degree. Each university attracts and retains students from different populations and geographic regions and serves the needs of these unique students differently. This proposal was designed with the focus entirely on students who are new to UMKC. While we anticipate a few students may move in to the BSPH program from other UMKC programs, they were not counted in the enrollment projections, as they are not new to UMKC. While UMKC and MU recognize the possibility that some students may move from one university to the other, it is believed that will be a very small number.

Furthermore, the need in Missouri for public health professionals will only increase. "Missouri now has the 10th highest adult obesity rate in the nation". Missouri's adult obesity rate is currently 32.4 percent, and if current trends continue, is projected to reach 61.9% by 2030. (TFAH, 2016). The Missouri Department of Health and Senior Services, and the Missouri Foundation for Health have indicated priority areas for the health of Missourians (Missouri Dept of Health & Senior Services, Missouri Foundation for Health, 2016). These include and are not limited to:

- childhood obesity rates
- infant mortality rates
- injury and violence prevention
- reducing pedestrian deaths
- food insecurity
- health equity
- increasing seatbelt use
- reducing intimate partner violence
- addressing bullying in schools

Each of these target areas requires the specialized skills and knowledge within the public health workforce. Public Health professionals are policy advocates and authors, educators, community collaborators, and social justice activists. Their combined passion and knowledge is required to make an impact. Their unique understanding of the social determinates of health and their impact the health and well-being of Missourians is critical. There is no risk of saturation in the state by offering public health degrees at MU and at UMKC.

3. Business-Related Criteria and Justification

3.A. Market Analysis

3.A.1. Need for Program

In a Robert Wood Johnson-commissioned systematic review of the public health workforce (Hilliard & Boulton, 2012), evidence was found to suggest four urgent priorities for the public health workforce: 1) developing of ethnically and racially diverse public health workforce to meet the diverse needs of the nation; 2) recruitment and retention of well-trained, prepared employees to replace retirees; 3) confronting a significant shortage in public health workforce, while enhancing the infrastructure; and 4) providing cultures for job satisfaction including career advancement, competitive salaries, etc.

The need for public health professionals is compounded by the fact that our national and global healthcare needs are changing due to disease and disability burden, population aging, health care delivery system changes, and epidemiologic shifts. The role of public health professionals will play an increasingly important role in bridging communications and managing collaborations to achieve shared goals across health professions (Crisp & Chen, 2014).

Thought leaders in public health agree that now is the time for public health to play a major role in the healthcare system and that the field overall has significant momentum, but more education and training opportunities for the workforce are needed (Miner & Allan, 2014; Beard and Bloom, 2015).

In September 2016 there were 270 employment openings advertised on the Public Health Jobs (publichealthjobs.org) website. Over two hundred public health related positions were available in the Kansas City metro area at that time. There are no signs of these employment trends slowing and US public health agencies are experiencing ongoing workforce shortages. This situation is expected to worsen with “26% of state public health workers being eligible to retire by 2016” (Yeager et al, 2015). National data suggest that undergraduate public health education is one way to provide access for health professions students to address the growing gap in supply and demand for a public health workforce. (ASPPH, 2016).

Local interviews with partner health departments indicated a need for personnel trained in communicable disease surveillance and environmental health with undergraduate degrees. In addition, the Kansas City Public Health Dept. and the SoNHS have been actively engaged in following the recommendations from the Public Health Foundation in establishing an Academic Health Department, which is a formal affiliation between an academic institution and a public health practice organization. The purpose of this collaborative relationship is to “improve public health practice, education, and research by fostering, coordinating, and monitoring links among academia and the public health and healthcare community” (PHF, 2016). An undergraduate degree in public health will be well supported by local partners including KC Public Health, Wyandotte Co Health Department, and Independence Health Department. Support letters are included in appendices.

3.A.2. Student Demand for Program

The SoNHS at UMKC introduced a Minor in Public Health during the fall of 2015, to help address the employment needs, and to respond to student interest in furthering their knowledge in this field. From Fall 2015 to Fall 2016, the minor grew in enrollment from twenty-six students to thirty-five students, exceeding original enrollment projections. With the combined need for a changing workforce, and the

demand and interest from undergraduate students, there is sufficient evidence to build upon the Minor in Public Health and create a Bachelor of Science in Public Health.

In October 2016 an informal survey of students in two freshmen Bachelor of Health Sciences courses at UMKC asked students "If UMKC had offered a BS in Public Health program at the time you enrolled, would you have enrolled or considered enrolling in the program?" Of the students responding, 65.45% stated they would have enrolled or considered enrolling in the BSPH program. A review of five BSPH program across the U.S. found the average yearly number of graduates to be approximately 60.

Recent meetings with representatives from the Metropolitan Community Colleges (March, 2016) were informative in discovering interest from students in pursuing public health. This discussion explored the development of specific articulation agreements for entrance into the Bachelor of Science in Public Health. Students in their Associates of Science program (which is currently under revision) will be well positioned to seamlessly transfer into the BSPH. Cherly Carpenter, Ed.D. Dean of Instruction expressed administrative enthusiasm and student interest in establishing a realistic and clear pathway into the program.

The SONHS actively recruits new students from Kansas City metropolitan high schools, with academic advisers attending career days and recruiting events. In addition, the SONHS has a very active high school pipeline program for students interested in health related careers, participating in the Kansas City Health Tracks program, Urban Universities for Health, Summer Health Professions Exposure day, African American Youth Day, Hispanic Youth Day and PREP-KC's Health Start Academy. These programs recruit high school students from urban schools in both urban Kansas City, Missouri and Kansas City, Kansas.

Analysis of the job market, student interest in the public health minor and the rapid increase in student numbers in the current BHS program from 40 students to 400 students in six years were used to support an estimate of steady increases in enrollment in the BSPH program. In addition, the interest from the Metropolitan Community Colleges indicates that a significant number of their Associate of Science graduates will be interested in completing their BSPH in the new program. This will allow the Metropolitan Community Colleges to act as feeder schools for the BSPH program.

Table 1a. Student Enrollment Projections (anticipated TOTAL number of students enrolled in program during the fall semester of given year).

Year		0	1	2	3	4	5	6	7	8
		FY17	FY18	FY20	FY21	FY22	FY23	FY24	FY25	FY26
Enrollment Projections										
Student Headcount	Yr. 1		25	23	21	21				
Student Headcount	Yr. 2			30	27	24	24			
Student Headcount	Yr. 3				35	32	29	29		
Student Headcount	Yr. 4					40	36	32	32	

Student Headcount	Yr. 5						45	41	37	37
Student Headcount	Yr. 6							50	45	41
Student Headcount	Yr. 7								55	50
Student Headcount	Yr. 8									60
Total			25	53	83	117	134	152	169	188
# Graduates						21	24	29	32	37

10% attrition freshman to sophomore and 10% sophomore to junior

Table 1b. Student Enrollment Projections (anticipated number of students enrolled during the fall semester of given year who were NEW TO CAMPUS).

Year	1	2	3	4	5
Full-Time	25	30	35	40	45
Part-Time					
Total	25	30	35	40	45

Table 1c. Projected Number of Degrees Awarded

Year	1	2	3	4	5	6	7	8
# of Degrees Awarded	0	0	0	21	24	29	32	37

3.B. Financial Projections

The financial viability projections for this program proposal were determined with the direct assistance of UMKC Chief Financial Officer Sharon Lindenbaum.

4. Institutional Capacity

The BSPH will build upon faculty and courses within the BHS program. This will allow initial success by ensuring students are integrated into existing courses, and will make lasting connections with faculty. As student enrollment increases in the program, additional course sections will be opened (particularly with courses at the 400 level) to ensure faculty student ratios are reasonable, and allow for high quality education and support.

UMKC provides superb shared-services in the way of Health and Counseling, Career Planning, and Student Involvement offices. These offices have been strong partners in meeting the needs of our students, and will continue to do so with a new program.

5. Program Characteristics

5.A. Program Outcomes

Student learning outcomes and aligned instructional and assessment activities were determined using both the ACEPH accreditation requirements and UMKC's requirements.

Student Learning Outcomes :

Upon completion of this degree, students will be able to:

- 1) Apply foundational knowledge of the science of public health into inter-professional practice.
- 2) Create evidence-based public health programs relevant to the needs of communities.
- 3) Demonstrate professional conduct, strong inter-professional skills, and knowledge of the roles of public health providers.
- 4) Advocate for policies, programs, and funding to influence the health of communities.
- 5) Communicate public health information effectively with clarity and compassion to a wide variety of audiences.

Student Learning Outcomes

Apply foundational knowledge of the science of public health into inter-professional practice.

Create evidence-based public health programs relevant to the needs of communities.

Students will integrate, synthesize and apply knowledge through cumulative and experiential activities

Aligned Instructional and Assessment Activities

Students will demonstrate the ability to apply and communicate public health information, in both oral and written forms and through a variety of media, to diverse audiences during classroom projects and assignments, service learning and capstone experiences.

All students complete a cumulative, integrative and scholarly or applied experience or inquiry project that serves as a capstone to the education experience. These experiences may include, but are not limited to, internships, service-learning projects, senior seminars, portfolio projects, research papers or honors theses. Programs encourage exposure to local-level public health professionals and/or agencies that engage in public health practice.

Students will synthesize public health information and best practices to address local, regional, national, or global public health issues. All students complete a cumulative, integrative and scholarly or applied experience or inquiry project that serves as a capstone to the education experience.

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These experiences may include, but are not limited to, internships, service-learning projects, senior seminars, portfolio projects, research papers or honors theses. Programs encourage exposure to local-level public health professionals and/or agencies that engage in public health practice.

According to Council on Education for Public Health (2016), the accrediting organization for undergraduate public health education, the requirements for the public health major provide instruction in specific domains. The UMKC SoNHS BSPH curriculum addresses these domains through any combination of learning experiences throughout the requirements for the major or concentration coursework (i.e., the program may identify multiple learning experiences that address a domain—the domains listed below do not each require a single designated course)

- the history and philosophy of public health as well as its core values, concepts and functions across the globe and in society
- the basic concepts, methods and tools of public health data collection, use and analysis and why evidence-based approaches are an essential part of public health practice
- the concepts of population health, and the basic processes, approaches and interventions that identify and address the major health-related needs and concerns of populations
- the underlying science of human health and disease including opportunities for promoting and protecting health across the life course
- the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities
- the fundamental concepts and features of project implementation, including planning, assessment and evaluation
- the fundamental characteristics and organizational structures of the US health system as well as the differences in systems in other countries
- basic concepts of legal, ethical, economic and regulatory dimensions of health care and public health policy and the roles, influences and responsibilities of the different agencies and branches of government
- basic concepts of public health
- specific communication, including technical and professional writing and the use of mass media and electronic technology

5.B. Structure

The structure of the BSPH program is based upon the extensive experience the SoNHS has with structuring nursing and health sciences programs. Students will complete 120 hours as required by UMKC for degree completion. Students must maintain a 2.75 GPA to be enrolled in the Bachelor of Science in Public Health and may enter the program from their first semester at UMKC provided they have a minimum score of 21 on their ACT. Advising will be well-versed in assisting transfer students who are interested in pursuing a BSPH, how to maximize appropriate transfer credits, and ensure a streamline path through the program.

PROGRAM STRUCTURE

1. Total credits required for graduation: 120

2. Residency requirements, if any: none

3. General education

Total credits for general education courses: 30 + 16 (Math and Science) = 46 credit hours

4. Major requirements

Total credits specific to degree: 60 credit hours

48 credit hours from EXISTING COURSES currently offered, 12 credit hours of NEW COURSES to be developed.

New courses:

- | | |
|---|---------|
| - BSPH2XX Qualitative Research Methods for Public Health | 3 hours |
| - BSPH3XX Historical and Contemporary Issues in Public Health | 3 hours |
| - BSPH4XX Evidence-Based Public Health Capstone & Seminar | 6 hours |

5. Free elective credits

Total free elective credits: 14

6. Requirement for thesis, internship or other capstone experience:

Completion of a minimum 108 credit hours, and all prerequisite courses for

BSPH4XX Evidence-Based Public Health Capstone & Seminar 6 hours

7. Any unique features such as interdepartmental cooperation:

Students will be encouraged and advised to complete courses offered from Urban Planning and Criminal Justice for their Anchor I, Focus C, and elective credits.

We are encouraging interdepartmental exposure and interdisciplinary education.

See Appendices for full course descriptions and details on recommended elective courses.

5.C. Program Design and Content

According to Council on Education for Public Health (2016), the accrediting organization for undergraduate public health education, the requirements for the public health major provide instruction in specific domains. The UMKC SoNHS BSPH curriculum addresses these domains through any combination of learning experiences throughout the requirements for the major or concentration coursework. These specific domains will be met with existing courses in the BHS program, the Minor and Public Health, and by developing three additional courses. The learning objectives and assessment strategies in the courses, will exceed the expectations of these domains.

Students will complete 120 hours as required by UMKC for degree completion. Students must maintain a 2.75 GPA to be enrolled in the Bachelor of Science in Public Health and may enter the program from their first semester at UMKC provided they have a minimum score of 21 on their ACT. The requirement for the BSPH will be achieved through the following courses:

General Education Requirements from UMKC 30 hours

Anchor I and Discourse I	6 hours
Anchor II and Discourse II	6 hours
Anchor III and Discourse III	6 hours
Focus A, B, C, Elective	12 hours

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- In an effort to expand and align public health undergraduate learning with current trends in public health, students will be encouraged and advised to fill their Anchor and Focus courses with the following 3-credit hour options:

ANCH 102 – Intro – Urban Studies
 Focus C – HISTORY 213 – Researching Kansas City
 Focus C – CJC 101 – Introduction to Criminal Justice
 Focus C – CJC 240 – Delinquency and Juvenile Justice
 Focus C – UPD 260 – Historical Planning & Urban Design

Science and Math requirements: 16 hours

Math 110	College Algebra	3 hours
BIOL 108	General Biology	3 hours
BIOL 108L	General Biology Lab	1 hour
LS-MCRB 112	Microbiology and Living	3 hours
LS-ANATO 118	Introductory Anatomy	3 hours
CHEM 206	Human Nutrition	3 hours

Program appropriate courses currently offered by SONHS as a part of the BHS degree: 36 hours

HLSC 110	Personal Wellness	3 hours
HLSC 300	Diversity in Health	3 hours
HLSC 310	Healthcare Systems	3 hours
HLSC 345	Quantitative Analysis in the Health Sciences	3 hours
HLSC 410	Epidemiology	3 hours
HLSC 430	Health Program Management	3 hours
HLSC 440	Policy & Ethics in Health	3 hours
HLSC 450	Urban Health	3 hours
HLSC 460	Global Health	3 hours
HLSC 470	Technology Marketing and Media in Health	3 hours
HLSC 476	Scientific Inquiry	3 hours
HLSC 480	Leadership and Management in Health Professions	3 Hours

Program appropriate courses currently offered by SoNHS as a part of the Minor in Public Health: 12 hours

HLSC 158	Public Health Principles	3 hours
HLSC 358	Environmental Public Health	3 hours
HLSC 445	Core Competencies in Health Education	3 hours
HLSC 458	Communicable Disease Investigation	3 hours

Additional NEW courses needed for creation of BSPH: 12 credit hours

BSPH2XX	Qualitative Research Methods for Public Health	3 hours
BSPH3XX	Historical and Contemporary Issues in Public Health	3 hours
BSPH4XX	Evidence-Based Public Health Capstone & Seminar	6 hours

Elective Hours Total: 14 credit hours

Suggested Electives for students pursuing BSPH include:

ACCTNG 210	Introduction to Financial Accounting	3 hours
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ECON 201 Introduction to Economics I	3 hours
UPD 260 Historical Planning & Urban Design	3 hours
UPD 280 Land Use Planning	3 hours
UPD 332CZ Environmental Sustainability	3 hours
UPD 340 Neighborhood and Comm Dev	3 hours
UPD 420 Transportation Planning	3 hours
CJC 101 Introduction to Criminal Justice	3 hours
CJC 240 Delinquency and Juvenile Justice	3 hours
CJC 351 Policing in the Community	3 hours
SOCIOL 337 Comm Dev in Urban America	3 hours
PUB-ADM 455 Non-Profit Leadership Issues	1 hour
HLSC 200 First Aid	1 hour
HLSC 315 Health Literacy	1 hour
HLSC 490SJ Introduction to Social Justice	1 hour

5.D. Program Goals and Assessment

Student Learning Outcomes are outlined in Section 5, Program Characteristics: Program Outcomes.

Program educational goals:

The goals of Bachelor of Science in Public Health program are as follows:

Goal 1: To prepare graduates as leaders in improving public health outcomes through inter-professional practice, research and education.

Goal 2: To improve health outcomes and healthcare delivery to community, focusing on urban health and underserved populations.

Goal 3: To produce graduates with an appreciation of critical thinking, evidence based practice and continuing professional education.

Student learning outcomes

At the time of graduation, graduates of the Bachelor of Science in Public Health will:

SLO1: Apply foundational knowledge of the science of public health into inter-professional practice.

SLO2: Create evidence-based public health programs relevant to the needs of communities.

SLO3: Demonstrate professional conduct, strong inter-professional skills, and knowledge of the roles of public health providers.

SLO4: Advocate for policies, programs, and funding to influence the health of communities.

SLO5: Communicate public health information effectively with clarity and compassion to a wide variety of audiences.

Assessment Methods/Measures

SLO	Assessment method	Assessment source	Target for student achievement	Time of data collection
SLO1	Final exams, evaluated internship performance	BSPH4XX Evidence-Based Public Health Capstone & Seminar	80% of students will achieve a score of C or better on each grading rubric criteria	Spring semester year 4
SLO2	Final exams, assignments, evaluated internship performance	HLSC 158 Public Health Principles, BSPH4XX Evidence-Based Public Health Capstone & Seminar	80% of students will achieve a score of C or better on each grading rubric criteria.	Fall semester year 2, Spring semester year 4
SLO3	Leadership project/presentation, Team assignments	HLSC 480 Leadership and Management in Health Professions	80% of students will earn a grade of B or better on their project. 80% will earn the full 150 points for their team assignment.	Fall semester year 4.
SLO4	Leadership project/presentation, Team assignments, Current event assignment	HLSC 440 Policy and ethics in health, HLSC 480 Leadership and Management in Health Professions	80% of students will earn a grade of B or better on their project, 80% of students will answer all exam questions correctly.	Fall, spring semester year 4
SLO5	Final project, final exam,	HLSC 470 Technology Marketing and Media in Health NLSC 445 Core Competencies in Health Education	80% of students will answer all exam questions correctly. 80% of students will earn a grade of B or better on their project per the rubric.	Fall, spring semester year 4

Retention and graduation goal, graduates per year at years 3 and 5 and estimated placement rates. Based upon the retention the SoNHS has had with their BSN and BHS programs, goals for graduation from the BSPH program are 70% within four years, 80% within six years. It is anticipated the BSPH program will have 24 graduates in year five.

Post-graduation job placement for BSPH graduates in public health or a related field is anticipated at 85%. Placement in unrelated fields or graduate programs is anticipated at 10%. Unemployment is projected at 5% or less. These figures are based upon job placement results from current Bachelor of Health Sciences graduates.

5.E. Student Preparation

Students will complete 120 hours as required by UMKC for degree completion. Students must maintain a 2.75 GPA to be enrolled in the Bachelor of Science in Public Health and may enter the program from

their first semester at UMKC (provided they have a minimum score of 21 for their ACT). Only students with a passion and interest in public health should pursue this academic career path.

5.F. Faculty and Administration

Dr. Joy Roberts, Associate Dean of the School of Nursing and Health Studies will direct the implementation and ongoing evaluation of the program. There will be plans to hire a program director who will meet the criteria established for accreditation from the Council on Education for Public Health. This includes, "a full-time faculty member with educational qualifications and professional experience a public health discipline."

Faculty	% time in BSPH program
Dr. Stacy Farr, Teaching Assistant Professor Program director	45%
Janis Ellis-Claypool, Teaching Assistant Professor	15%
Susan Garrett, Teaching Assistant Professor	10%
Dr. Amanda Grimes, Teaching Assistant Professor	10%
Dr. Jamie Hunt, Teaching Assistant Professor	10%
Renee Semarge, Teaching Assistant Professor	10%

Academic Advisors:

Corrina Beck

Jennifer Hunt

Eighty-five percent of the credit hours within the major will be assigned to full time faculty. Faculty will have educational qualifications and professional experience in a public health discipline. A minimum Master's Degree in a related field is required. Sufficient examples of public health educational qualifications, national professional certifications and professional experience will be essential for primary faculty members. Local practitioners in the community will be invited and encouraged to participate as guest-lecturers, as panelists, and be available for job-shadow or career interview opportunities.

All faculty members will be well informed and current in their discipline or area of public health teaching and enhance their teaching skills by utilizing UMKC's FaCET opportunities, as well as UMKC's Instructional Designers. All faculty members are expected to maintain involvement in professional activities and are encouraged to promote innovative strategies in teaching and learning.

5.G. Alumni and Employer Survey

The School of Nursing and Health Studies has a Program Evaluation Committee as a part of our shared-governance model. The committee oversees survey distribution, survey content, and reviews response rates and data collected. In following the similar survey distribution for SoNHS's undergraduate degree programs alumni surveys will be administered to 1st and 3rd year alumni, with an expected outcome of at least 3.0 (average) on a 5.0 (excellent) scale for each item.

In addition, the employers of first and third year alumni who give us permission to do so will also be surveyed, with the same expected outcomes as above.

February 9-10, 2017

5.H. Program Accreditation

The Council on Education for Public Health (CEPH), is an independent agency recognized by the U.S. Department of Education to accredit schools of public health and public health programs outside schools of public health. Specialized accreditation attests to the quality of an educational program that prepares for entry into a recognized profession. The process of accreditation involves completing an initial application, and the completion of a self-study approximately 2 years from the point of application. A site visit is scheduled approximately six-months after the submission of the self-study, and a decision is made in the subsequent semester.

The accreditation process will take approximately three years once an application is submitted.

Upon approval of the Bachelor of Science in Public Health at UMKC, an application for accreditation will begin and be submitted within six months.

References

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- Beard, J.R. and Bloom, D.E. (2015) Toward a Comprehensive Public Health Response to Population Aging. *Lancet*, 285(9968): 658-661.
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- Crisp, N. and Chen, L. (2014). Global Supply of Health Professionals. *New England Journal of Medicine*, 370: 950-957.
- Hilliard, T.M., and Boulton, M.L. (2012) Public Health Workforce Research in Review: A 25-Year Retrospective. *American Journal of Preventive Medicine*, 42 (5), S17-S28.
- Miner, K. and Allan, S. (2014) Future of Public Workforce Training: Thought Leaders' Perspectives. *Health Promotion Practice*, 15 (1): 10S-13S.
- UMKC Mission. Retrieved from <http://www.umkc.edu/chancellor/mission-vision.cfm>

Appendix A: Letters of Support

1. Terry Brecheisen, Director, Unified Government Wyandotte County-Kansas City, Kansas, Public Health Department.
2. Rex Archer, Director, Kansas City, Missouri, Health Department.
3. Gary Zaborac, Director, Clay County Public Health Center.
4. Dennis Dunmyer, VP, KC Care Clinic.
5. Seft Hunter, Chief Operating Officer, Communities Creating Opportunity.
6. Andrew Warlen, Director, Independence Health Department.
7. Lougene Marsh, Director, Johnson County, KS Department of Health and Environment.
8. Dan Luebbert, Assistant Director, Platte County, MO, Health Department.



Public Health Department
Terry Brecheisen, Director

619 Ann Avenue
Kansas City, KS 66101-3038

Phone (913) 573-8355
Fax (913) 321-7932

June 29, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

Dear Dr. Cary,

The Unified Government Public Health Department is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SONHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program. The offering of a Bachelor of Science in Public Health (BSPH) degree program is the next step in the strategic initiative by SoNHS to meet the demand for a well prepared PH workforce in the region and state. The BSPH degree offers to UMKC students the opportunity to be educated in the science and practice of public health and provides our community an academic resource to strengthen the competency of public health personnel.

Sincerely,

Terry Brecheisen
Director



Promoting good health and a safe environment for a better community.



KANSAS CITY
MISSOURI

Health Department

2400 Troost Avenue, Suite 4000
Kansas City, Missouri 64108
Office (816) 513-6252 Fax (816) 513-6293

Director's Office



Public Health

June 28, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108


Dear Dr. Cary,

The Kansas City, Missouri Health Department (KCMOHD) is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SONHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The offering of a Bachelor of Science in Public Health (BSPH) degree program is the next step in the strategic initiative by SONHS to meet the demand for a well prepared PH workforce in the region and state. The BSPH degree offers to UMKC students the opportunity to be educated in the science and practice of public health and provides our community an academic resource to strengthen the competency of public health personnel.

Due to the demand for these services in Kansas City and the surrounding areas, we strongly encourage this program.

Sincerely,


Rex Archer, M.D., M.P.H.
Director

February 9-10, 2017

OPEN – AS&EA 1-28



CLAY COUNTY
PUBLIC HEALTH CENTER



800 Haines Drive
Liberty, MO 64068
p. 816-595-4200
clayhealth.com

November 14th, 2016
Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

Dear Dr. Cary,

The Clay County Public Health Center is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce in the region and state. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel.

Knowing the program will follow guidelines established by the Association of Schools and Programs of Public Health is important since it ensures graduates are provided with additional valuable skills that will be relevant and timely to the changing needs of our communities.

Thank you for your efforts to advance public health practice in the KC Metro.

Sincerely,

Gary E. Zaborac
Director of Public Health
Clay County Public Health Center

The mission of the Clay County Public Health Center is to deliver the essential public health services of prevention, promotion and protection to the communities of Clay County.

February 9-10, 2017

OPEN – AS&EA 1-29



KC CARE

November 14, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

Dear Dr. Cary,

The KC CARE Clinic is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce in the region and state. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel.

Knowing the program will follow guidelines established by the Association of Schools and Programs of Public Health is important since it ensures graduates are provided with additional valuable skills that will be relevant and timely to the changing needs of our communities.

Thank you for your efforts to advance public health practice in the KC Metro.

Sincerely,

Dennis Dunmyer
VP of Behavioral Health and Community Programs

November 16, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108



Dear Dr. Cary,

Communities Creating Opportunity (CCO) is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce in the region and state. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel.

The program will follow guidelines established by the Association of Schools and Programs of Public Health, which will provide graduates with additional valuable skills that will be relevant and timely to the changing needs of our communities.

My organization has valued the strong collaboration with your existing programs and to date have hired two graduates of your bachelors in health sciences program. We look forward to continuing this tradition of mutual collaboration with the BSPH program. Please do not hesitate to contact me if I can further clarify our support for this program.

Best regards,

Scott Hunter, Ph.D., Chief Operating Officer

February 9-10, 2017

City of Independence



HEALTH DEPARTMENT • ADMINISTRATION DIVISION
515 SOUTH LIBERTY STREET • P.O. BOX 1019 • INDEPENDENCE, MISSOURI 64051-0519
www.independencemo.org • (816) 325-7986

November 16, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

Dear Dr. Cary,

The Independence Health Department is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce, locally, regionally, and state-wide. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel.

The program will follow guidelines established by the Association of Schools and Programs of Public Health, which will provide graduates with additional valuable skills that will be relevant and timely to the changing needs of our communities.

As one of your public health partners, the Independence Health Department, supports your students and the BSPH undergraduate degree program.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Warlen".

Andrew Warlen, MPH
Health Director
Independence Health Department

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
Services provided on a nondiscriminatory basis

February 9-10, 2017

OPEN – AS&EA 1-32

JOHNSON COUNTY
Health & Environment

November 17, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

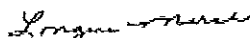
Dear Dr. Cary,

The Johnson County Department of Health and Environment is pleased to extend its support to the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

The BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce in the region and state. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel.

The program will follow guidelines established by the Association of Schools and Programs of Public Health, which will provide graduates with additional valuable skills that will be relevant and timely to the changing needs of our communities.

Sincerely,



Lougene Marsh, MPA
Director

Health
11875 S. Sunset, Suite 300, Olathe, KS 66061
6000 Lamar, Suite 140, Mission, KS 66202
(913) 826-1200 • fax (913) 826-1300
TDD: 800-766-3777

jocogov.org



Environmental & Child Care Licensing
11811 S. Sunset, Suite 2700, Olathe, KS 66061
Environmental (913) 715-6900 • fax (913) 715-6970
Child Care (913) 477-8339 • fax (913) 477-8035
TDD: 800-766-3777

February 9-10, 2017

OPEN – AS&EA 1-33



Mary Jo Vernon
RN, BSN, Director

North

212 Marshall Road
Platte City, MO 64079
(816)858-2412
Fax (816)858-2087

South

1201 East Street
Parkville, MO 64152
(816)587-5998
Fax (816)587-6028

Services Provided

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- Emergency Preparedness
- Environmental Health
 - Restaurant & Septic Inspections
- Health Education
- Special Deliveries Program
- Women, Infants & Children (WIC)
- Vital Records
 - Birth & Death Certificates
- Family Healthcare Clinic
 - Physician
 - Nurse Practitioner
- Walk-In Clinic
 - Adult/Child /Travel Vaccinations
 - HIV/STD Testing

November 17, 2016

Ann Cary, PhD, RN
UMKC School of Nursing and Health Studies
2464 Charlotte St.
Kansas City, MO 64108

Dear Dr. Cary,

Platte County Health Department (PCHD) is pleased to support the University of Missouri-Kansas City School of Nursing and Health Studies (UMKC-SoNHS) in the creation of a Bachelor of Science in Public Health (BSPH) undergraduate degree program.

PCHD has had the privilege of providing an internship opportunity to one of UMKC's talented students, Cynthia Wilson. Cynthia has been a wonderful addition to our Team. Her passion for helping underprivileged individuals has been an inspiration to me and to other members of our staff. If Cynthia's work ethic and energy are an indication of the type of students attending UMKC, we enthusiastically look forward to continuing our relationship with the University.

PCHD understands that the BSPH degree program is the next step in the strategic initiative by the SoNHS to meet the demand for a well prepared public health workforce in the region and state. The BSPH degree offers UMKC students the opportunity to be educated in the science and practice of public health and will provide our community an academic resource to strengthen the competency of public health personnel. PCHD welcomes the opportunity to support the University by providing public health internship opportunities to your students.

PCHD also understands that the BSPH degree program will follow guidelines established by the Association of Schools and Programs of Public Health, which will provide graduates with additional valuable skills that will be relevant and timely to the changing needs of our communities.

Best wishes to UMKC as you tackle this important endeavor. The public health workforce needs an infusion of the eager, capable talent that the SoNHS can provide. Your success will be a victory for public health throughout the region and state.

Sincerely,

Dan Luebbert, Assistant Director
Platte County Health Department

Platte County Health Center provides all services on a non-discriminatory basis, without regard to race, sex, color, national origin, age, handicap or religion.

www.plattecountyhealthdept.com

February 9-10, 2017

OPEN – AS&EA 1-34

Appendix B: Course Descriptions

BSPH2XX Qualitative Research Methods for Public Health 3 hours

This course explores the basics of qualitative research within public health and the community. The course will examine the definitions and methods of qualitative research. Research questions asked by qualitative researchers will be explored. The course will also introduce basics of qualitative research design, data collection, and qualitative analysis in public health. The relationship between qualitative and quantitative research, as well as mixed methods research, will be discussed.

Pre-requisites: HLSC 158 Public Health Principles

BSPH3XX Historical and Contemporary Issues in Public Health 3 hours

This course examines the historical and present day roles and responsibilities of public health policy, practice, and professionals. Students will review and discuss successes and failures of public health practitioners and their impacts on community health outcomes. Topics such as chronic, infectious and communicable diseases, urban crowding, environmental changes, immunizations, food production methods, increased global mobility, the persistence of poverty, mental health, and violence and injury prevention will be discussed.

Prerequisites:

HLSC 158 Public Health Principles

BSPH4XX Evidence-Based Public Health Capstone & Seminar 6 hours

This course, taken in the final semester of the BSPH curriculum provides an experience-based capstone project for the senior student. Within the context of public health, the student will complete an evidence-based service learning, research, or problem-based project under the guidance of a site supervisor within the agency or organization, and a BSPH faculty member. The capstone will include a seminar session where students and faculty share learning, information, and understanding of their experience in a public health.

Pre-requisites: All core BSPH courses or minimum 108 hours completed of degree applicable courses

HLSC 110 Personal Wellness Credits: 3

This course presents an overview of health behaviors and actions needed to achieve a combination of physical, mental, and social well-being through intelligent lifestyle choices. Effective strategies for staying healthy and improving one's health will be explored. Elements of stress management, preservation of physical and mental well-being, personal hygiene and strong social relationships will be discussed.

HLSC 158 Public Health Principles Credits: 3

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.

HLSC 300 Diversity in Health Credits: 3

This course will explore social determinants of health, i.e. how social, cultural, political, historical, and economic influences shape the individual's own values, beliefs, and behaviors. This course expands students' basic knowledge of cultural diversity to provide special focus on health disparities among marginalized populations. Students will examine diversity by exploring health inequities related to race and ethnicity, immigration status, disabilities, gender, access, poverty, sexual identity, and veteran status. The course includes experiential learning with organizations focused on reducing health disparities.

Prerequisites: HLSC 101 (BHS students and non-BHS students pursuing Minor in Health Sciences), Foreign Language I (BHS students)

HLSC 310 Healthcare Systems Credits: 3

The course is designed to provide a description and overview of the organization, financing, and delivery of healthcare in the United States. The historical background and the impact of socio-political, economic, and cultural influences will be explored. The purpose of the course is to provide a framework of understanding of the healthcare system through examination of public and private sectors, market competition, and government regulation. Major issues currently facing the healthcare system will be examined.

Prerequisite: HLSC 101 (or co-requisite).

HLSC 345 Quantitative Analysis in the Health Sciences Credits: 3

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.

Cross Listings: NURSE 345.

HLSC 358 Environmental Public Health Credits: 3

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.

Prerequisites: HLSC 158

HLSC 410 Epidemiology Credits: 3

This course is an introduction to epidemiology with an emphasis on applications in public health. Students will learn basic principles of epidemiology, including the relationship of simple statistics 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, and explain the uses of screening tests

and criteria for their evaluation, including measures of validity. The class will explore epidemiology in environmental health and social sciences.

Prerequisites: HLSC 101 and HLSC 345 (BHS students); HLSC 101, HLSC 345 and HLSC 158 (BHS students pursuing Minor in Public Health); HLSC 158 and HLSC 345 (non-BHS students pursuing the Minor in Public Health).

HLSC 430 Health Program Management Credits: 3

This course is designed to acquaint students with assessment, planning, implementation, and evaluation of health programs. Issues of health financing, health policy, health delivery, and population health will be explored. The course provides a broad introduction to key concepts in health program management, common issues, evidence-based tools, and usable strategies, regardless of the health settings. Vocabulary relevant to policy makers, managers, administrators, and consumers will be studied. Students will develop mock health programs using provided outlines and budgetary restrictions, while considering human resource restraints, climate, relevance of health issue, and readiness for change.

Prerequisites: HLSC 101, HLSC 310 (BHS Students).

HLSC 440 Policy and Ethics in Health Credits: 3

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.

Prerequisites: HLSC 101 and HLSC 300 (BHS Students and non-BHS students pursuing Minor in Health Sciences); HLSC 158 (non-BHS students pursuing Minor in Public Health).

HLSC 445 Core Competencies in Health Education Credits: 3

This course is designed to enforce the core areas of responsibility required to become a professional health educator. Course content will include the skills required to assess needs, assets and capacity for health education; plan, implement and evaluate health programs; administer and manage health education programs; serve as a resource person and communicate and advocate for health and health education. Students will begin preparing for the certification exam offered through the National Commission for Health Education.

Prerequisites: HLSC 101 and HLSC 430 (BHS students); HLSC 158 (non-BHS students pursuing the Minor in Public Health)

HLSC 450 Urban Health Credits: 3

This course focuses on the unique health needs and outcomes of individuals and communities located within an urban core. Included in the course, are the specific ways in which health interventions can be delivered to urban populations to promote better health outcomes and quality of life. The course provides information on urban characteristics including crowding, poverty and crime in exacerbating the health and wellness needs of this historically underserved community.

HLSC 458 Communicable Disease Investigation Credits: 3

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.

Prerequisites: HLSC 410, HLSC 158, HLSC 101, HLSC 300.

HLSC 460 Global Health Credits: 3

This course discusses the complexity of health in a global context. It is designed as an overview of the biological, social and environmental contributors to health and diseases in populations around the world. Course content will include case studies of various global organizational structures and systems relative to population health, selected infectious diseases, nutritional deficiencies and health effects of environmental change.

Prerequisites: HLSC 101 and HLSC 300.

HLSC 470 Technology, Marketing and Media in Health Credits: 3

This course will focus on past, present, and future trends in health marketing and messaging. Technology's role in marketing health will be explored. Marketing principles will be used to evaluate strategies to promote health behavior change and social policy. Course content will link current trends in consumer health and how these trends are marketed to the public. Examples include mobile apps and devices, personal health data collection, health data storage, and health risk assessment tools. Students will discuss the philosophical, social and legal issues in the use and abuse of health technology, health marketing, and health in the media.

Prerequisites: HLSC 101, HLSC 440 (or co-requisite).

HLSC 476 Scientific Inquiry Credits: 3

This course focuses upon the development of inquiry skills necessary to identify relevant research-based literature and apply findings from research to practice. Students will develop an understanding of basic research concepts and evidence based practice in addition to skills in finding, appraising, and using health related literature.

Prerequisites: NURSE 345 or HLSC 345, or equivalent upper-level statistics course.

Cross Listings: NURSE 476.

HLSC 480 Leadership and Management in Health Professions Credits: 3

This course will provide the student with a theoretical foundation of leadership and management in health professions. The principles of authority, power, politics, decision making, and influence will be explored. Organizational philosophies will be examined within the context of current health issues. The leadership skills of negotiation, delegation, conflict resolution, coaching and mentoring will be discussed, as related to health professions. The role of communication will be examined across organization systems. The effect on gender and cultural diversity on communication will be discussed.

Prerequisites: HLSC 101 and HLSC 430.