Angelitta M. Britt-Spells, MS, MPH, PhD teaches the fully online Principles of Epidemiology course. Participants will focus on the application of epidemiology, specifically the descriptive and analytic studies pertaining to human morbidity, mortality, and injury (disability). Topics include key epidemiological concepts, basic quantitative methods and measures used in the field, surveillance/screening tests, design and implementation of epidemiological studies, and causality. By the end of the course participants will be able to describe a health problem (characterized by distribution and determinants), evaluate epidemiological health data and results, and effectively communicate epidemiological information. Knowledge learned in this course may be utilized to decrease health risk and improve health status among the general population. This course meets core epidemiology competencies for the Master of Public Health Degree.

Sara McComb, PhD, PE teaches the Systems Approaches in Healthcare course. She is an Industrial Engineer with a joint appointment in the Schools of Nursing and Industrial Engineering, and is a member of the Regenstrief Center for Healthcare Engineering Leadership Team. Dr. McComb shares her extensive knowledge of systems engineering principles and will demonstrate how engineering tools and techniques apply to healthcare systems. By the end of the course, participants will have addressed a real-world problem from this perspective and be conversant in how the other tools and techniques might be applied. This type of knowledge will help participants recognize opportunities for systems improvement that directly impact healthcare delivery. This is a core course in the DNP program.

Two Summer Intensive Courses open to Nurses and Graduate Students

PRINCIPLES OF EPIDEMIOLOGY
SYSTEMS APPROACHES IN HEALTHCARE

These courses meet core requirements for the Purdue Doctor Nursing Practice program at the West Lafayette campus and for the Purdue collaborative system DNP program.

Courses are also open to students of any discipline and healthcare professionals interested in building a foundation in Quality Improvement and/or Public Health
COURSES

Principles of Epidemiology
June 12—August 4
Online Self-Paced Format; with 4 optional synchronous sessions on June 16, June 30, July 14, and July 28, from 12:00-2:00pm EST. These optional sessions may be attended on campus or by distance technologies.
3 Credits
Instructor: Angelitta M. Britt-Spells, MS, MPH, PhD

Introduction and application of basic/rudimentary epidemiologic descriptive and analytic statistics and study as related to human morbidity, mortality, and injury (disability). Other topics include utility of public health vital statistics, concepts of disease transmission, types of epidemiological studies and causality.

Systems Approaches to Healthcare
May 22—26 • 9:00am – 12:00pm
May 25 • 3:00pm – 6:00pm
Face to Face Format
3 Credits
Instructor: Sara McComb, PhD, PE

Introduces the fundamentals of systems engineering tools and approaches through hand-on problem solving exercises. Participants will develop basic skills in interpreting systems analysis results and applying systems tools such as process mapping, bottle neck analysis, queuing, lean engineering, simulation, optimization, dealing with uncertainty, “what if” analysis, quality control, and performance monitoring techniques.

WHO CAN ENROLL

Graduate students, nurses, and other healthcare professionals are invited to apply. Students wishing to take the courses for credit who are not already active graduate students must apply as a non-degree seeking student no later that May 1, 2017.

FORMAT

Principles of Epidemiology is an entirely online course and begins on June 12 running through August 4, making it possible for students to complete both courses in the summer session.

Systems Approaches to Healthcare is offered on campus in an intensive five-day format. Supplemental work in required prior to and following the time on campus. The chance to experience the university environment and the opportunity to form strong relationships between and among students and faculty are highlights of this program.

TEXTBOOKS

The text for Principles of Epidemiology is Gordis L, Epidemiology with Student Consult Online Access, 5th Edition. ISBN: 978-1455737338

The text for Systems Approaches in Healthcare is TBD.

HOUSING

Please visit https://union.purdue.edu/hotel for information on lodging options at the Purdue Memorial Union Club Hotel. Information about additional hotel options in the Greater Lafayette area can be found at www.homeofpurdue.com/stay/hotels.

CANCELLATION POLICY

Refunds will be calculated according to Purdue University Policy. For additional information, you may contact askbursar@purdue.edu.

FOR MORE INFORMATION

For any additional course content information or registration information, please contact: gradnursing@purdue.edu.