EPI 0100 - Epidemiology and Biostatistics  
Credit(s): 0-4 Credits  
This course is an introduction to the basic concepts of medical epidemiology and biostatistics. Learning methodology includes lectures, assigned readings, and small group workshops. The course focuses on acquiring the skills required to understand and assess biomedical research.

EPI 4000 - Intro Epidemiology: Foundations & Practice  
Credit(s): 3 Credits  
Epidemiology forms the scientific rationale for public health assessment, assurance, and program/policy development. This course introduces students to foundational principles of epidemiology, including outcome measures, surveillance, and study design. Historical and current examples are used to demonstrate the applications of epidemiology in public health practice. (Offered Fall and Spring)  
Prerequisite(s): (1 Course from MATH 1400-4999, MATH 1320, or SLU Math Placement with a minimum score of 1510)  
Attributes: Public Health Minor Elective

EPI 4930 - Special Topics  
Credit(s): 3 Credits (Repeatable for credit)

EPI 4980 - Independent Study  
Credit(s): 1 or 3 Credits (Repeatable for credit)

EPI 5000 - Principles of Epidemiology  
Credit(s): 3 Credits  
This course is an introduction to epidemiology, which is the study of the distribution and determinants of disease in human populations and the application to the control of health problems. Topics will include analytic reasoning in public health and disease surveillance, descriptive and analytic study designs, and causal inference. Basic statistical measures used in the analysis of epidemiologic studies, including measures of disease frequency and measures of association, will be covered.  
Restrictions: Students with a classification of Freshman, Junior or Sophomore may not enroll.

EPI 5220 - Maternal and Child Health Epidemiology  
Credit(s): 3 Credits  
Explores epidemiologic methods/research related to MCH public health practice. Emphasis is placed on synthesizing research that potentially challenges current public health policy and communicating the findings to policy makers. Includes analysis of infant mortality and selected reproductive, perinatal and child health issues such as infant mortality, childhood obesity, lead poisoning, prenatal substance abuse, and prenatal and childhood HIV infection. Policy implications are discussed.  
Prerequisite(s): (BST 5000, BST 5020, or PUBH 5040); (EPI 5000 or PUBH 5030)

EPI 5270 - Cancer Epidemiology  
Credit(s): 3 Credits  
This course provides an overview of concepts related to cancer epidemiology, including cancer biology, etiology, surveillance, and study design. Classic examples and current topics will be used to explore the role of epidemiology in addressing disparities, policies, and population-based approaches to cancer prevent and control.  
Prerequisite(s): (EPI 5000 or PUBH 5030); (BST 5000, PUBH 5270, or BST 5020)

EPI 5280 - Perinatal Epidemiology  
Credit(s): 3 Credits  
Issues related to the perinatal period from the framework of epidemiologic methods will be examined in the course through critical review of epidemiologic studies and exploration of design issues for this population. The students will also learn to apply perinatal research principles to data analysis in perinatal research through in-class data analysis exercise and individual research project.  
Prerequisite(s): (EPI 5000 or PUBH 5030)

EPI 5930 - Special Topics  
Credit(s): 3 Credits
EPI 5960 - Capstone in Epidemiology  
Credit(s): 3 Credits  
The purposes of this course are 1) to develop the practical statistical skills to analyze an epidemiologic data set, and 2) to learn to write a scientific paper in the form of a journal article from the results of epidemiologic data analysis. Stratified analysis and modeling using main effects logistic regression will be emphasized. 
Prerequisite(s): (BST 5000 or PUBH 5040); BST 5100; BST 5200; (EPI 5000 or PUBH 5030); EPI 5020; BST 5210*  
* Concurrent enrollment allowed.

EPI 5970 - Research Topics in Epidemiology  
Credit(s): 1-3 Credits  
This course provides direct research experience in epidemiology. Content is developed jointly between the student(s) and a faculty mentor.

EPI 5980 - Graduate Reading in Epidemiology  
Credit(s): 1-3 Credits  
This course provides specialized study in epidemiology to enhance skills in literature review and problem solving. Content is developed jointly between the student(s) and a faculty mentor.

EPI 6930 - Special Topics  
Credit(s): 3 Credits (Repeatable for credit)

EPI 6970 - Research Topics in Epidemiology  
Credit(s): 1-3 Credits

EPI 6980 - Graduate Reading in Epidemiology  
Credit(s): 1-3 Credits (Repeatable for credit)