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 SLUMP 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 5020 - Epidemiology Methods II
Credit(s): 3 Credits
This course is offered to graduate students who desire more intensive training in epidemiologic research methods than offered in EPI 5000. This course covers observational study designs, infectious disease outbreak analysis, sampling methods, statistical power, multivariate analysis, types of bias, and causal inference. Offered annually.
Prerequisite(s): (EPI 5000 or PUBH 5030); (BST 5000, PUBH 5040, or BST 5020)

EPI 5010 - Epidemiology of Infectious Disease
Credit(s): 3 Credits
The history of epidemiology and infectious diseases are intricately intertwined. Our understanding of Infectious Diseases requires an integration of phenomenal advances including newly recognized pathogens, explosion of diagnostic technology, hosts with unprecedented compromised states, a better understanding of dynamic demographic and sociocultural forces, and improvements in study design, analysis, and modeling. (Offered annually.)
Prerequisite(s): (EPI 5000 or PUBH 5030)

EPI 5110 - Epidemiology of Infectious Disease
Credit(s): 3 Credits
This course considers some of the major substantive issues and methods used in chronic disease epidemiology. Emphasis will be on the application of epidemiologic principles and methods related to cancer, cardiovascular diseases, psychiatric illness, and other chronic diseases. Topics include classification of diseases, rates, associations, etiology, prevention, and control. (Offered every year)
Prerequisite(s): (EPI 5000 or PUBH 5030)

EPI 5120 - Chronic Disease 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
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 5500 - Environmental and Occupational Epidemiology
Credit(s): 3 Credits
This course presents the epidemiological methods used to investigate the health effects of occupational and environmental exposures to toxins. Epidemiological evidence concerning the health effects of selected occupational and environmental exposures will be critically reviewed and evaluated. (Offered annually)
Prerequisite(s): PUBH 5030
Attributes: MPH-Maternal & Child Health

EPI 5930 - Special Topics
Credit(s): 3 Credits

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)