Epidemiology and Biostatistics (EPBI)

Courses

EPBI 2219. Biostatistics and Public Health. 3 Credit Hours.
This course is designed to provide students with a solid background in applied biostatistics in the field of public health. Specifically, the course includes an introduction to the application of biostatistics and a discussion of key statistical tests. Appropriate techniques to measure the extent of disease, the development of disease, and comparisons between groups in terms of the extent and development of disease are discussed. Techniques for summarizing data collected in samples are presented along with limited discussion of probability theory. Procedures for estimation and hypothesis testing are presented for means, for proportions, and for comparisons of means and proportions in two or more groups. Multivariable statistical methods are introduced but not covered extensively in this undergraduate course. Public Health majors, minors or students studying in the Public Health concentration must complete this course with a C or better.

Level Registration Restrictions: May not be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

EPBI 3101. Introduction to Epidemiology. 3 Credit Hours.
This course explores the application of epidemiology practices in public health including using and interpreting data, calculating measures of health status, and identifying various research study designs used in epidemiologic studies. Additionally, the course will apply the steps in epidemiological disease investigation in order to become familiar with the methodology used in studying an epidemic outbreak. Public Health majors, minors or students studying in the Public Health concentration must complete this course with a C or better.

Field of Study Restrictions: Must be enrolled in one of the following Fields of study: Public Health.

Level Registration Restrictions: May not be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
(KINS 1223|Minimum Grade of C-|May not be taken concurrently)
AND (KINS 1224|Minimum Grade of C-|May not be taken concurrently)
AND (HRPR 1001|Minimum Grade of C|May not be taken concurrently
OR PBHL 1101|Minimum Grade of C|May not be taken concurrently
OR PBH1 Y|May not be taken concurrently)
AND (SBS 1104|Minimum Grade of C|May not be taken concurrently
OR PBHL 1104|Minimum Grade of C|May not be taken concurrently
OR PBH2 Y|May not be taken concurrently)
AND (SBS 1105|Minimum Grade of C|May not be taken concurrently
OR PBHL 1105|Minimum Grade of C|May not be taken concurrently
OR PBH3 Y|May not be taken concurrently)
AND (SBS 1106|Minimum Grade of C|May not be taken concurrently
OR PBHL 1106|Minimum Grade of C|May not be taken concurrently
OR PBH4 Y|May not be taken concurrently)
AND (EPBI 2219|Minimum Grade of C|May not be taken concurrently
OR PBHL 2219|Minimum Grade of C|May not be taken concurrently)
EPBI 3102. Introduction to Research Methods. 3 Credit Hours.
This course will cover the basic concepts of public health research, including study designs, human subjects protection, quantitative and qualitative research techniques, and data collection. These concepts will be applied to public health settings and topics. Public Health majors, minors or students studying in the Public Health concentration must complete this course with a C or better.

Field of Study Restrictions: Must be enrolled in one of the following Fields of study: Public Health.
Level Registration Restrictions: May not be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
(KINS 1223|Minimum Grade of C-) OR (KINS 1224|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBHL 1101|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (KINS 1224|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBHL 1101|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (HRPR 1001|Minimum Grade of C-) OR (PBHL 1101|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)
AND (PBHL 1101|Minimum Grade of C-) OR (HRPR 1001|Minimum Grade of C-) OR (PBH 1 Y|May not be taken concurrently)

EPBI 3382. Independent Study in Public Health. 1 to 6 Credit Hour.
Students in this course pursue supervised independent projects on issues related to public health. Public Health majors, minors or students studying in the Public Health concentration must complete this course with a C or better. NOTE: Registration must be preapproved by faculty before registration.

Field of Study Restrictions: Must be enrolled in one of the following Fields of study: Public Health.
Level Registration Restrictions: May not be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.