

# COMMUNITY HEALTH AND EPIDEMIOLOGY (EPID)

**EPID 301 Principles of Epidemiology Units: 3.00**

Basic methods involved in researching the distribution and determinants of health/disease in populations. Core principles of epidemiology are examined, as are the various epidemiological approaches to study design. The latter include descriptive (cross-sectional and ecological), observational (case-control and cohort), and experimental (randomized controlled trials) approaches.

**Learning Hours:** 117 (13.5L, 13.5T, 6 Group Learning, 12 Online Activity, 72 Private Study)

**Requirements:** Prerequisite BIOL 243 or CHEE 209 or COMM 162 or ECON 250 or GPHY 247 or KNPE 251 or NURS 323 or POLS 285 (formerly POLS 385/3.0) or PSYC 202 or SOCY 211 or STAM 200 or STAT 263 or STAT 267 or STAT 269 or STAT 367. Exclusion HSCI 270 (formerly BMED 270/3.0); HLTH 323.

**Offering Faculty:** Faculty of Health Sciences

**EPID 401 Biostatistical Data Analysis Units: 3.00**

An applied statistics course covering practical topics in tests and confidence intervals for single and multiple samples, ANOVA, linear regression, correlations, methods for categorical data, and nonparametric methods. The lab uses statistical software. The course emphasizes analyzing data arising in life sciences using practical statistical methods.

**Requirements:** Prerequisite Level 4 or above and registration in the LISC/BCHM Specialization or Major Plan, or BHSc program, and a cumulative GPA of 2.50 or higher, and one of (BIOL 243/3.0; COMM 162/3.0; ECON 250/3.0; HSCI 190/3.0; PSYC 202/3.0; SOCY 211/3.0; STAM 200/3.0; STAT 263/3.0).

**Offering Faculty:** Faculty of Health Sciences

**EPID 499 Research Project in Epidemiology Units: 12.00**

An examination of an epidemiological research question chosen by the student with guidance from the supervisor. Project will involve review of the literature, development of a proposal, data collection and/or processing, data analysis, a written report and oral presentation. Students will be required to attend and report on seminars of their choosing from a number of venues across campus. Limited enrolment. NOTE Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

**Learning Hours:** 480 (288 Laboratory, 24 Group Learning, 24 Individual Instruction, 144 Private Study)

**Requirements:** Prerequisite Level 4 and registration in the LISC Specialization Plan and a cumulative GPA of 2.50 or higher and (BMED 270 or EPID 301 or HLTH 323). Corequisite EPID 401. Exclusion ANAT 499; CANC 499; LISC 499; MICR 455; MICR 499; NSCI 499; PATH 499; PHAR 499; PHGY 499; REPD 499.

**Offering Faculty:** Faculty of Health Sciences

**EPID 595 Independent Study Units: 6.00**

**Offering Faculty:** Faculty of Health Sciences