

# PBHL 317: Introduction to Epidemiology I

The objective of this course is to provide an introduction to the principles and methods of epidemiology, defined as the study of the distribution and determinants of disease in populations. Lectures, problem sets, and outside reading will cover ecologic, case-control, cohort, and experimental studies. Topics to be discussed will include study design, measures of disease risk, sources of bias, methods of controlling for extraneous factors, principles of screening, and interpretation of data. Illustrations will include classic and contemporary examples in acute and chronic disease.

This is the first part of a two-part course. Registration is required separately for each part of the course.

## Learning Objectives

- Calculate measures of disease risk and association
- Summarize steps involved in investigation of an infectious disease outbreak
- Describe and compare epidemiologic study designs
- Define bias and confounding
- Evaluate critically epidemiology studies as presented in journal articles and the popular press

**Credits:** 2

**Class Type:** Graduate Course

**Prerequisites:**

STAT 201

STAT 500

STAT 502

STAT 200 or STAT 500 or equivalent.

**Program:** Public Health