

# Epidemiology and Population Health Summer Institute at Columbia University



ASYNCHRONOUS COURSE

OFFERED THROUGHOUT JUNE 2021

## Principles of Epidemiology

### DESCRIPTION

This course will provide an in-depth introduction to epidemiologic concepts and methods. Using graphics and visuals as a starting point, we will provide step-by-step instruction on the fundamentals of epidemiologic study design and analysis. For this course we will use the textbook *Epidemiology Matters: a New Introduction to Methodological Foundations*, co-written by course instructors Drs. Keyes and Galea. At its core, *Epidemiology Matters* is concerned with the principles of an epidemiologic science that is consequential for the improvement of human health through the identification of causes of disease while aspiring to the prevention of disease and the promotion of health. The course will be divided into fourteen modules that correspond with the fourteen chapters of *Epidemiology Matters*.

### INSTRUCTOR

▪ **Navdep Kaur, MPH**

### OBJECTIVES

By the end of the course, participants will be able to:

- Identify the most appropriate study design for different types of research questions
- Estimate measures of association between exposures and health indicators
- Evaluate the potential for non-comparability compromising our ability to make inference from a study
- Articulate epidemiologic causal theory and how causes work together to produce complex health indicators
- Envision a program of research that has consequence for improving public health

EARLY DISCOUNTS  
AVAILABLE UNTIL  
APRIL 1, 2021

REGISTRATION OPEN  
THROUGH MAY 1, 2021

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