

# EPIDEMIOLOGIC METHODS CERTIFICATE (GRADUATE)

The Certificate in Epidemiologic Methods provides in-depth training in epidemiologic methods for non-majors, grounding them in the basic approaches that can benefit their future endeavors in addressing public health issues. The program exposes students to the core epidemiologic methods courses. It is ideal for students who want to strengthen their ability to conduct research, which will benefit them in their future careers, whether that's in a research setting, in academia, or in the community.

This graduate certificate serves as a second area of study for SPHTM student in the MPH, MSPH or MPHTM degrees and not majoring in Epidemiology.

**Offered by:** Department of Epidemiology (<https://sph.tulane.edu/epid/home/>)

**Faculty Lead:** Jeanette Gustat, PhD (<https://sph.tulane.edu/epid/jeanette-gustat-phd-mpH/>)

Epidemiologic Methods Certificate Enrollment Form (<https://tulane.box.com/v/epid-methods-certificate-enrol/>)

## Purpose

Students will acquire training in observational epidemiology and clinical trials. At the conclusion of the program, students will be able to design and implement studies, conduct basic data analysis, and interpret study findings.

## Eligible Students

SPHTM students enrolled in a MPH, MSPH, or MPH&TM degree program at Tulane SPHTM and not majoring in Epidemiology.

## Certificate Competencies

Students who earn the Certificate in Epidemiologic Methods will be able to:

- Develop the appropriate research questions for biomedical and public health issues;
- Apply the best study design to answer important study questions; and
- Analyze and interpret study findings and critically review epidemiological literature

**Number of Credits Required for Completion: 15**

## Requirements

### Prerequisite Courses

Course ID	Title	Credits
SPHL 6050	Biostatistics for Public Hlth	3
SPHL 6060	Epidemiology for Public Health	3
EPID 6230 or SPHU 4160	Computer Packages Epid Intro to Statistical Packages	2

### Required Courses

Course ID	Title	Credits
BIOS 6040	Intermediate Biostatistics	3
EPID 7120	Epidemiologic Methods II	3
EPID 7130	Observational Epidemiolo	3
EPID 7160	Survey Methodology	3
EPID 7170	Clinical Trials: Dsgn, Cndct	3

\*For programs requiring BIOS 6040, the student may substitute: BIOS 7060 Regression Analysis (3) or BIOS 7150 Categorical Data Analysis (3). For students pursuing the master's degree in biostatistics, substitute with BIOS 7220 Nonparametric Statistics (3) or BIOS 7250 Principles of Sampling.

Students should consult with their academic advisor to determine which certificate best fits their professional and academic goals and how best to plan their graduate course schedule.