

# MPH in Epidemiology and Biostatistics

## INTEGRATED & APPLIED KNOWLEDGE

Epidemiology and biostatistics are the foundation of public health practices. The MPH program prepares students to apply advanced epidemiological and biostatistical knowledge to understand the patterns, causes, and prevention measures of disease conditions in the population, analyze complex health and clinical data with precision, and foster effective public health practices and policies for improving human health and well-being.

## EXPLORE YOUR INTERESTS

This program is suitable for students who have a science background with basic quantitative training. This program also strengthens public health professionals for advancing their careers, policy makers for creating, implementing, and evaluating health policies, and healthcare professionals for understanding the epidemiological and biostatistical aspects of health and diseases.

## GAIN CAREER-READY SKILLS

Through didactic, hands-on and experiential learning, MPH students will develop skills in designing and conducting epidemiological surveys, analyzing complex quantitative and qualitative data using appropriate biostatistical methods and tools, communicating results scientifically in public health.

Students can choose either Epidemiology track to focus more on disease specific epidemiology, or Biostatistics track to master advanced biostatistical skills. Along with this MPH program, students can also enrich their skills through Graduate Certificates such as Health Analytics, Population Health Informatics, Applied Artificial Intelligence in Population Health Outcomes, and Health Systems Leadership.

## MAKE CONNECTIONS

This program is open to all health professionals from Tennessee, United States and beyond. Students will work in teams with professionals from government agencies, community organizations, pharmaceutical companies, health insurance, and other healthcare industries.

## Tips

Start by using your results

- Pull big numbers to get started
- Graphs vs graphics

- Consider the design to only what is needed for your audience

## MASTER OF PUBLIC HEALTH | EPIDEMIOLOGY

## 42 CREDIT HOURS

### TO APPLY:

- Completed SOPHAS application
- Undergraduate degree with minimum GPA of 3.0 and strong background in mathematical and quantitative sciences
- Curriculum Vitae/Resume
- Statement of Purpose (400-500 words)
- Two (2) letters of recommendation
- Credentials evaluation for foreign transcripts
- Language proficiency test if language of instruction was not English



## WHAT YOU WILL LEARN

Students will develop skills in designing and conducting epidemiologic surveys, analyzing complex public health data, and applying advanced epidemiologic methods to public health practice and research in chronic diseases, cancer and infectious diseases.

## CURRICULUM

### CORE COURSES - 15 CREDIT HOURS

PUBH 7180 | Foundations of Public Health (0 credit hours)

HADM 7105 | Health Policy and Organization of Health Services

PUBH 7120 | Environmental Health

PUBH 7150 | Introduction to Biostatistics

PUBH 7160 | Social and Behavioral Sciences Principles

PUBH 7170 | Principles of Epidemiology

### CONCENTRATION COURSES - 15 CREDIT HOURS

PUBH 7141 | Epidemiologic Survey Method

PUBH 7152 | Biostatistical Modelling and Applications

PUBH 7172 | Epidemiological Methods and Applications

PUBH 7311 | Applied Categorical Data Analysis

PUBH 7401 | Applied Epidemiology

### ELECTIVE COURSES - 9 CREDIT HOURS

In consultation with faculty and/or academic advisors

### APPLIED PRACTICE EXPERIENCE - 1 CREDIT HOURS

PUBH 7985 | Fieldwork

### CULMINATING EXPERIENCE - 2 CREDIT HOURS

PUBH 7998 | Capstone Project

## CONNECT WITH OUR TEAM



### Click or Scan

To learn more about the application and admissions process at UofM SPH!