

# MPH - Biostatistics

## ABOUT THE PROGRAM

The MPH in Biostatistics provides students with the skills to apply biostatistical methods to analyze complex health and clinical data with precision, improving health and healthcare systems.

Students develop advanced skills in study design, large datasets, statistical software and effective communication. The program may be completed full-time (in four semesters) or part-time (completion varies) either on-campus or online.

Upon graduation, students are eligible to take the Certification in Public Health (CPH) exam.

## IS THIS DEGREE FOR YOU?

- The program is ideal for students with a background in mathematics, statistics, or health-related fields who want to apply their skills in statistical methods and data analysis to uncover trends and patterns in public health
- Public health professionals looking to enhance their quantitative skills
- Healthcare professionals who want to understand the application of statistics in health and disease

## ENHANCE YOUR EXPERIENCE AND SKILLS

Students can enhance their skills through graduate certificates in one of the following areas, or create their plan in consultation with an academic advisor:

- Health Analytics
- Population Health Informatics
- Health Systems Leadership
- Population Health

## WHERE OUR GRADUATES ARE

Graduates of the program are employed in federal, state and local health departments, pharmaceutical companies, and nonprofit organizations and hospitals. Graduates work as bio-statisticians, health data analysts and forecasting and clinical trials investigators.

## MASTER OF PUBLIC HEALTH | BIOSTATISTICS

**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 learn to apply advanced statistical, programming tools and machine learning techniques to analyze multi-dimensional datasets and identify patterns that inform public health strategies

## CURRICULUM

### CORE COURSES - 18 CREDIT HOURS

HADM 7105 | Health Policy and Organization of Health Services  
PUBH 7120 | Environmental Health I  
PUBH 7150 | Biostatistical Methods I  
PUBH 7160 | Social and Behavioral Sciences Principles  
PUBH 7170 | Epidemiology in Public Health I  
PUBH 7180 | Foundations of Public Health

### CONCENTRATION COURSES - 12 CREDIT HOURS

PUBH 7152 | Biostatistical Methods II  
PUBH 7309 | Applied Survival Analysis in Public Health  
PUBH 7310 | Mixed Model Regression Analysis  
PUBH 7311 | Applied Categorical Analysis

### ELECTIVE COURSES - 6 CREDIT HOURS

in consultation with faculty and/or academic advisors

### APPLIED PRACTICAL EXPERIENCE - 3 CREDIT HOURS

PUBH 7985 | Practicum

### CULMINATING EXPERIENCE - 3 CREDIT HOURS

PUBH 7992 | Master's Project Seminar  
OR  
PUBH 7996 | Master's Thesis

## CONNECT WITH OUR TEAM



**How to Apply**

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