

# MS - Biostatistics

## ABOUT THE PROGRAM

The MS program in Biostatistics with concentration in Biostatistics provides in-depth training on biostatistical analytical tools and their related theoretical background and prepares students to design, analyze and interpret complex biomedical and health data to contribute to evidence-based decision-making. The program may be completed full-time (in four semesters) or part-time (completion varies) on-campus.

## IS THIS DEGREE FOR YOU?

- Students with a strong background in mathematics, statistics, or related fields who are interested in enhancing their skills in statistical methods, computing algorithms
- Those looking for the best analytical approaches in health, biomedical and clinical research
- Professionals in health and healthcare analytics

## ENHANCE YOUR EXPERIENCE AND SKILLS

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

- Health Analytics
- Population Health Informatics
- Health Systems Leadership
- Population Health
- Applied AI in Population Health Outcomes
- Implementation Science

## WHERE OUR GRADUATES ARE

Graduates of the program are employed in federal, state and local health departments, pharmaceutical companies, nonprofit organizations and hospitals as biostatisticians, clinical trials investigators or pursue doctoral studies.

## MASTER OF SCIENCE IN BIostatISTICS

### BIostatISTICS

## 36 CREDIT HOURS

### TO APPLY:

- Completed SOPHAS application
- Undergraduate degree with minimum GPA of 3.0 and have completed Calculus I and Calculus II with a grade of B or higher
- 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



## CURRICULUM

### CORE COURSES - 6 CREDIT HOURS

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

PUBH 7150 | Introduction to Biostatistics

PUBH 7170 | Principles of Epidemiology

### CONCENTRATION COURSES - 18 CREDIT HOURS

MATH 6636 | Introduction to Statistical Theory

MATH 7654 | Inference Theory

PUBH 7152 | Biostatistical Modelling and Applications

PUBH 7309 | Applied Survival Analysis in Public Health

PUBH 7310 | Mixed Model Regression Analysis

PUBH 7311 | Applied Categorical Analysis

### ELECTIVE COURSES - 9 CREDIT HOURS

In consultation with faculty and/or academic advisors

### CULMINATING EXPERIENCE - 3 CREDIT HOURS

PUBH 7996 | Master's Thesis

## WHAT YOU WILL LEARN

Students learn to develop and apply advanced statistical and data analysis methods to model complex biological processes and their coupling with socioeconomic and environmental determinants.

## CONNECT WITH OUR TEAM



**Click or Scan**

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