MS - Data Science in Public Health

MASTER OF SCIENCE IN BIOSTATISTICS

| DATA SCIENCE
IN PUBLIC HEALTH

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

THE UNIVERSITY OF
MEMPHIS.
School of Public Health

ABOUT THE PROGRAM

The MS Biostatistics program with concentration in Data Science in Public Health prepares students to harness data management, mining and analytics, machine learning, and computational tools to analyze large-scale clinical and health data, identify trends, and create evidence-based solutions for improving population health. The program may be completed full-time (in four semesters) or part-time (completion varies) on-campus.

IS THIS DEGREE FOR YOU?

- Those with a strong interest in contributing to public and population health at the level of the community, region, nation or globe as a data science expert
- Students with a desire for a deep understanding of underlying health issues and the ability to identify the most efficient computing algorithms and best analytical approaches
- If you have interest in continuing as a doctoral student in Data Science or related fields, this degree is for you

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

WHERE OUR GRADUATES ARE

Graduates of the program are employed as health data analysts in federal, state and local health departments, pharmaceutical companies, and nonprofit organizations and hospitals.

CURRICULUM

CORE COURSES - 6 CREDIT HOURS
PUBH 7170 | Epidemiology in Public Health I
PUBH 7180 | Foundations of Public Health

CONCENTRATION COURSES - 21 CREDIT HOURS
PUBH 7150 | Biostatistical Methods I
PUBH 7152 | Biostatistical Methods II
PUBH 7310 | Mixed Model Regression Analysis
PUBH 7311 | Applied Categorical Analysis
PUBH 7410 | Biostatistical Machine Learning
in Public Health
COMP 7115 | Database Systems
PUBH 7302 | SAS in Public Health

ELECTIVE COURSES - 6 CREDIT HOURS
in consultation with faculty and/or academic
advisors

CULMINATING EXPERIENCE - 3 CREDIT HOURS
PUBH 7992 | Master's Project Seminar OR
PUBH 7996 | Master's Thesis

WHAT YOU WILL LEARN

Students learn to apply computational,
machine learning and data mining
techniques to manage and analyze large,
complex and mutlisectoral health datatsets.

CONNECT WITH OUR TEAM

How to Apply

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