MASTER OF SCIENCE IN
BIOSTATISTICS (MSDSPH)
CONCENTRATION IN DATA SCIENCE IN PUBLIC HEALTH

36 CREDIT HOURS

ADMISSION REQUIREMENTS:

- Bachelor's degree
- Minimum GPA of 3.0
- It is required that an applicant have a necessary mathematical and probability background.
- Three (3) letters of recommendation
- Statement of Purpose (750-1,00 words)
- Curriculum Vitae/Resume

THE UNIVERSITY OF MEMPHIS®
School of Public Health

ABOUT THE PROGRAM

The DSPH is a concentration under the MS Biostatistics program. The focus of DSPH is to train students with knowledge and skills to work with data from different perspectives, including data management, data mining and data analyses.

An MS with DSPH concentration prepares graduate students for higher level public health studies and research responsibilities in the public health workforce, including population health related research institutes, hospitals, government, non-profit and pharmaceutical companies.

WHAT YOU WILL LEARN

Through close work with professors and peers, MS students in DSPH concentration will develop competence in data science analytical skills with strong statistical computing dealing with large data supported by in-depth understanding of underlying biostatistical theory, a deeper understanding of epidemiological aspects involved in public health problems and strong public health communication skills.

IS THIS DEGREE FOR YOU?

If you have 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, with deep understanding of underlying health issues and the ability to identify the most efficient computing algorithms and best analytical approaches or if you have interest to continue as a doctoral student in Data Science or related fields, this degree is for you.

PROGRAM CURRICULUM

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

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

(ELECTIVES & ONE OF THE FOLLOWING
(12 CREDIT HOURS)
PUBH 7992 | Master's Project Seminar
PUBH 7996 | Master's Thesis

CONNECT WITH OUR ADMISSIONS TEAM

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PROGRAM OUTLINE:

6 hours | Core Courses
21 hours | Biostatistics concentration
6 hours | Elective courses
3 hours | Thesis or master's project