

BIOSTATISTICS (BIOS)

Graduate Degree Program
College: Public Health

Abstract

Biostatistics is a science that addresses theory and techniques for describing, analyzing, and interpreting health data. The discipline is primarily focused on applications to problems in the health, medical, and biological sciences. The MPH with a concentration in biostatistics is a 45-credit professional degree that prepares graduates to work in public health services as practitioners, researchers, administrators, and consultants. A full-time student may complete our program in 2 years. Part-time students may take up to 4 years to complete the program. The majority of courses are offered in the evenings. In addition to coursework, all biostatistics master's students are required to complete a 240-hour internship and a capstone project.

Our proximity to the nation's capital offers students unparalleled opportunities for research experiences in public health, including placements at the National Institutes of Health, National Center for Health Statistics, Centers for Disease Control, Food and Drug Administration, the Maryland Department of Health and Mental Hygiene, and many other national, state, and local health agencies.

CONTACT

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Courses: EPIB (<https://academiccatalog.umd.edu/graduate/courses/epib/>) SPHL (<https://umd-curr.courseleaf.com/graduate/courses/sphl/>)

Relationships: Epidemiology (EPDM) (<https://academiccatalog.umd.edu/graduate/programs/epidemiology-epdm/>) Epidemiology (EPID) (<https://academiccatalog.umd.edu/graduate/programs/epidemiology-epid/>)

Admissions

For admissions information please visit the department website (<https://sph.umd.edu/department/epib/how-apply/>).

APPLICATION DEADLINES

Type of Applicant	Fall Deadline
Domestic Applicants	
US Citizens and Permanent Residents	9 May
International Applicants	

F (student) or J (exchange visitor) 19 Mar
visas; A,E,G,H,I and L visas and
immigrants

Requirements

- Biostatistics, Master of Public Health (M.P.H.) (<https://academiccatalog.umd.edu/graduate/programs/biostatistics-bios/biostatistics-mph/>)

Facilities and Special Resources

Our faculty in the Department of Epidemiology and Biostatistics includes individuals with multi-faceted interests in biostatistics, epidemiology, and bioinformatics. Biostatistics faculty apply statistical techniques including survival and longitudinal analysis, computational statistics, statistical analysis of genomic and proteomic data, machine learning, neuroimaging statistics, (network) meta-analysis, missing data analysis, Bayesian hierarchical methods, and bioinformatics to analyze and interpret health data. Epidemiology faculty have research interests and expertise in the epidemiology of infectious disease and chronic disease with particular focus in the areas of HIV/STIs, cancer, health disparities, cardiovascular disease, obesity/physical activity, and sexual and reproductive health. Additional areas of specialization include social and behavioral determinants of health, aging, cultural competency, and community-based interventions.