

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 usually completes our program in 2 years. Part-time students usually 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

Jamie Trevitt, PhD, MPP

Director of Graduate Studies
Associate Clinical Professor
Department of Epidemiology and Biostatistics
School of Public Health
University of Maryland, College Park

Email: jtrevitt@umd.edu (<https://academiccatalog.umd.edu/graduate/programs/biostatistics-bios/jtrevitt@umd.edu>)

Website: sph.umd.edu/mpb-biostatistics (<https://academiccatalog.umd.edu/graduate/programs/biostatistics-bios/sph.umd.edu/mpb-biostatistics/>)

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

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

ADMISSIONS

The **MPH in Biostatistics** program has a two-part application process. Applicants must submit the SOPHAS application (sophas.cas.myliaison.com (<http://sophas.cas.myliaison.com>)), the centralized application service for schools and programs of public health, and the UMD Supplemental application (<https://terpenage.umd.edu/community/CustomLoginPage/?GradApp=True>). Both applications must be submitted, complete with all required documents and verified by the scheduled deadline (<https://sph.umd.edu/admissions/graduate-admissions/graduate-application-process/>). Applications will be reviewed once both the SOPHAS and UMD Supplemental applications are complete.

GENERAL REQUIREMENTS

- A Bachelor's degree
- Minimum 3.0 undergraduate GPA
- Transcripts from all previous coursework
- English proficiency test score (TOEFL, IELTS or PTE) (international applicants (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))
- Statement of purpose and objectives
- Response to personal experiences question(s)

PROGRAM SPECIFIC REQUIREMENTS

- SOPHAS application & UMD Supplemental application
- The statement of purpose should include career and educational goals, professional experience, and public health areas of interest
- At least one undergraduate (bio)statistics course. Other quantitative courses or evidence of data analysis experience may be considered
- Resume or curriculum vitae
- Three letters of recommendation
- Alignment between the applicant's professional goals and expectations and the program's degree competencies and faculty expertise.
- Submission of GRE test scores is optional. If submitting, official scores should be reported to SOPHAS (ETS code: 0485)

Note for applicants with foreign credentials:

- The SOPHAS application requires that applicants submit a WES credential evaluation (https://help.liasonedu.com/SOPHAS_Applicant_Help_Center/Sending_Your_Official_Transcripts_and_Test_Scores_to_SOPHAS/Sending_Official_Transcripts_to_SOPHAS/2_Foreign_and_French-Canadian_Transcripts/)
- The UMD supplemental application requires uploading unofficial transcripts issued in the original language with a literal English translation. Visit the Graduate School website for additional information (<https://gradschool.umd.edu/admissions/international-admissions/>)
- Evidence of English Language proficiency is required if the applicant does not hold a degree from a U.S. institution or one of the English-speaking countries listed on the Graduate School website (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>)
- Language scores must be submitted both to SOPHAS and the UMD supplemental application

For detailed instructions on how to apply, please visit the School of Public Health Website: sph.umd.edu/graduate-application-process (<https://sph.umd.edu/graduate-application-process/>)

APPLICATION DEADLINES

Type of Applicant	Fall Deadline
Domestic Applicants	
US Citizens and Permanent Residents	April 2, 2027 (final)

The priority deadline for both the SOPHAS and the UMD applications is January 15, 2027.

International Applicants

F (student) or J (exchange visitor) March 5, 2027 (final)
visas; A,E,G,H,I and L visas and
immigrants

The priority deadline for both the
SOPHAS and the UMD applications
is January 15, 2027.

RESOURCES AND LINKS

Program Website: [sph.umd.edu/mph-biostatistics \(https://sph.umd.edu/academics/masters-degrees/mph-master-public-health/mph-biostatistics/\)](https://sph.umd.edu/academics/masters-degrees/mph-master-public-health/mph-biostatistics/)

Application Process: [sph.umd.edu/graduate-application-process \(https://sph.umd.edu/admissions/graduate-admissions/graduate-application-process/\)](https://sph.umd.edu/admissions/graduate-admissions/graduate-application-process/)

Admissions FAQ: [sph.umd.edu/graduate-application-faqs \(https://sph.umd.edu/admissions/graduate-admissions/graduate-application-faqs/\)](https://sph.umd.edu/admissions/graduate-admissions/graduate-application-faqs/)

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.