**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](https://academiccatalog.umd.edu/graduate/courses/epib)) SPHL ([https://umd-curr.courseleaf.com/graduate/courses/sphl](https://umd-curr.courseleaf.com/graduate/courses/sphl))

**Relationships:** Epidemiology (EPDM) ([https://academiccatalog.umd.edu/graduate/programs/epidemiology-epdm](https://academiccatalog.umd.edu/graduate/programs/epidemiology-epdm)) Epidemiology (EPID) ([https://academiccatalog.umd.edu/graduate/programs/epidemiology-epid](https://academiccatalog.umd.edu/graduate/programs/epidemiology-epid))

**Admissions**

**GENERAL REQUIREMENTS**

- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTe (international graduate students [https://gradschool.umd.edu/admissions/english-language-proficiency-requirements](https://gradschool.umd.edu/admissions/english-language-proficiency-requirements))

**PROGRAM SPECIFIC REQUIREMENTS**

- SOPHAS Application ([https://sophas.org](https://sophas.org)): Applications for this School of Public Health Program must first be submitted through the Public Health application system, www.SOPHAS.org. SPH applicants should only complete the UMD application after their SOPHAS application has been verified and you have been notified to complete the UMD application.

- Graduate Record Examination (GRE) (optional). If you decide to submit your GRE scores, please have ETS send scores to SOPHAS (code 0485) and UMD (code 5814). The review committee will evaluate GRE scores if they are submitted. The lack of scores will not negatively impact applications. If submitted, the program considers competitive scores to be 50th percentile or higher in each of the three parts.

- The MPH in Biostatistics program has a two-step application process. Applicants first submit the SOPHAS application ([www.sophas.org](https://www.sophas.org/)), the centralized application service for schools and programs of public health (Step 1). Once the SOPHAS application has been verified applicants will submit their UMD Supplemental application (Step 2). Applicants will receive an email from the SPH Admissions team with instructions for how to complete the UMD Supplemental Application. Applications will not be reviewed until both the SOPHAS and UMD Supplemental applications are completed.

For detailed instructions on how to submit your application, please visit the School of Public Health Website: ([https://sph.umd.edu/admissions/graduate-admissions/graduate-application-process](https://sph.umd.edu/admissions/graduate-admissions/graduate-application-process))

**APPLICATION DEADLINES**

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<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
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<tr>
<td>US Citizens and Permanent Residents</td>
<td>January 14, 2022 (priority)</td>
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<td>International Applicants</td>
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<td>F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants</td>
<td>January 14, 2022 (priority)</td>
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<td>March 11, 2022 (final)</td>
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**RESOURCES AND LINKS:**


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

Admissions FAQ: [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](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.