

MASTER OF PUBLIC HEALTH IN THE FIELD OF BIOSTATISTICS (STEM)

Program Director: H. Hoffman

Mission

The mission of the master of public health in the field of biostatistics degree program is to educate students in the methodological and quantitative skills needed to apply statistical methods to the biological, biomedical, and health services sciences. In addition to enhancing students' capacity to think critically and creatively, the program deepens their commitment to improving the public's health and to engaging in and promoting public service—qualities essential to biostatisticians and public health practitioners.

Goals

The goals of the biostatistics program are to ensure that graduates:

- Understand and adhere to high scientific standards for research.
- Understand how to apply statistical methods to biological/ biomedical sciences and health services.
- Understand and follow guidelines for ethical treatment of research participants.
- Communicate research findings to a lay audience.
- Respect cultural diversity throughout all of the above.

This is a STEM designated program.

Visit the program website (<https://publichealth.gwu.edu/programs/biostatistics-mph/>) for additional information.

ADMISSIONS

Visit the Milken Institute School of Public Health website (<https://publichealth.gwu.edu/>) for additional information about academic programs and information about GWSPH. Graduate admissions information, including application requirements and deadlines, can be found on the GWSPH Graduate Admissions website (<https://publichealth.gwu.edu/admissions/graduate-admissions/>).

REQUIREMENTS

The following requirements must be fulfilled: 45 credits, including 14 credits in core courses, 22 credits in program-specific courses, and a 2-credit culminating experience, and 7 credits in elective courses.

Code	Title	Credits
Required		
Core courses		
PUBH 6000	MPH Applied Practice Experience	
PUBH 6003	Principles and Practices of Epidemiology	

PUBH 6007	Social and Behavioral Approaches to Public Health
PUBH 6009	Fundamentals of Public Health Program Evaluation
PUBH 6011	Environmental and Biological Foundations of Public Health
PUBH 6012	Fundamentals of Health Policy
PUBH 6021	Essentials of Public Health Practice and Leadership I
PUBH 6022	Essentials of Public Health Practice and Leadership II (Includes Practicum)
PUBH 6023	Interprofessional Education Experience
Culminating experience	
PUBH 6015	Culminating Experience (2 credits)
Program-specific courses	
PUBH 6850	Introduction to SAS for Public Health Research
PUBH 6851	Introduction to R for Public Health Research
PUBH 6852	Introduction to Python for Public Health Research
PUBH 6853	Use of SAS for Data Management and Analysis
PUBH 6862	Applied Linear Regression Analysis for Public Health Research
PUBH 6864	Applied Survival Analysis for Public Health Research
PUBH 6865	Applied Categorical Data Analysis for Public Health Research
PUBH 6866	Principles of Clinical Trials
PUBH 6868	Quantitative Methods
PUBH 6869	Principles of Biostatistical Consulting

Electives

7 credits in any graduate-level SPH courses.

MPH graduation requirements

1. Graduate credit requirement: 45 graduate credits.
2. Course requirements: Successful completion of core and program-specific courses.

3. Practicum Requirement: Students are required to fulfill all requirements of the Applied Practice Experience (Practicum) to receive credit for PUBH 6000 MPH Applied Practice Experience.
4. Interprofessional Education Experience (IPE): Students are required to enroll and participate in an authorized IPE activity (PUBH 6023 Interprofessional Education Experience).
5. Minimum grade-point requirement: minimum 3.0 (B) cumulative grade-point average.
6. Time limit requirement: The degree must be completed within five years.
7. Transfer credit policy: With approval, up to 12 graduate credits that have not been applied to any previous graduate degree may be transferred to the master of public health program. External credits must have been earned from an accredited institution in the last three years with a minimum grade of 3.0 (B) in each course. Students in SPH graduate certificate programs can transfer as many credits earned toward the certificate to the MPH degree as meet MPH degree requirements, to a maximum of 18 credits.
8. Graduate certificate students wishing to transfer to a degree program may apply to do so after completion of three or more courses with a cumulative GPA of 3.0 via the online change of concentration petition (<https://publichealth.gwu.edu/academics/forms/>). A minimum grade of B is required for a specific course to be eligible for transfer.
9. CITI Training requirement: All students are required to complete training regarding human subject protection regulation and the Health Insurance Portability and Accountability Act of 1996 (HIPAA).
10. Integrity Quiz and Plagiarism requirement: All students are required to review the George Washington University Code of Academic Integrity (<https://studentconduct.gwu.edu/code-academic-integrity/>) and take the SPH Academic Integrity Quiz at GWSPH Source (<https://source.publichealth.gwu.edu/user/login/?destination=node/193>). within their first semester of study.
11. Professional Enhancement requirement: Students must participate in eight hours of public health-related lectures, seminars, and symposia, related to their field of study.

COMBINED PROGRAM

Combined program

- Joint Master of Public Health or SPH graduate certificate and Juris Doctor or Master of Laws ([http://bulletin.gwu.edu/public-health/jd-mph/](http://bulletin.gwu.edu/public-health/jd-mp/))