

MASTER OF PUBLIC HEALTH IN THE FIELD OF BIOSTATISTICS

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.

Visit the program website (<https://publichealth.gwu.edu/programs/biostatistics-mph/>) for additional program 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 Statistical Packages for Data Management and Data 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 (<https://bulletin.gwu.edu/public-health/jd-mph/>)