MASTER OF SCIENCE IN THE FIELD OF BIOSTATISTICS

REQUIREMENTS

Specific admission requirements are shown on the Graduate Program Finder. (http://www.gwu.edu/all-graduate-programs)

The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Graduate Programs (http://bulletin.gwu.edu/arts-sciences/#degreeregulationtext).

Minimum Prerequisite Courses for Admission Consideration (or equivalents to these GW courses)

The courses listed below (or equivalents) are prerequisites for admission consideration, and MUST appear on your transcript. Submit your MS Biostatistics program admission application only after you have completed all of the following courses:

- **MATH 1231** Single-Variable Calculus I
- **MATH 1232** Single-Variable Calculus II
- **STAT 2118** Regression Analysis

Additional Course Requirements

The courses listed below are “Additional Course Requirements.” Applicants lacking these courses (or equivalents to these GW courses) will be considered for admission, but, if admissible, will be admitted conditionally with the expectation that these courses will be satisfactorily completed within two semesters following matriculation in the program. These credits do not count as credit toward the 33 credit graduation requirement, nor are grades earned in these additional courses reflected in the overall grade point average.

- **MATH 2184** Linear Algebra I
- **MATH 2233** Multivariable Calculus

One of the following:

- **STAT 1129** Introduction to Computing
- **STAT 2183** Intermediate Stat Lab/Packages
- **PUBH 6249** StatPackages/DataMgt&DataAnlys

Program Requirements

**Required core courses:**

**Required statistics core courses:**

- **STAT 6201** Mathematical Statistics I
- **STAT 6202** Mathematical Statistics II
- **STAT 6210** Data Analysis
- **STAT 6227** Survival Analysis
- **PUBH 6265** Design of Medical Studies
- **PUBH 6266** Biostatistical Methods (Basis for Master’s Comprehensive Examination)

**Required public health core courses:**

- **PUBH 6001** BiologicalConcepts/PublicHlth
- **PUBH 6003** Prin & Practice/Epidemiology
- **PUBH 6299** Topics in Epi/Bio

**Approved elective courses:**

6 credits from the following:

**Approved statistics elective courses:**

- **STAT 3187** Introduction to Sampling
- **STAT 4181** Applied Time Series Analysis
- **STAT 4188** Nonparametric Stat Inference
- **STAT 6215** Applied Multivariate Analysis I
- **STAT 6216** Applied Multivariate Analysis II
- **STAT 6217** Design of Experiments
- **STAT 6223** Bayesian Statistics: Theory and Applications
- **STAT 6231** Contingency Table Analysis
- **STAT 6242** Regression Graphics/Nonparametric Regression
- **STAT 6287** Modern Theory of Sample Surveys
- **STAT 8226** Advanced Biostatistical Methods
- **STAT 8265** Multivariate Analysis
- **STAT 8273** Stochastic Processes I
- **STAT 8281** Advanced Time Series Analysis
- **STAT 8288** Modern Theory/Sample Surveys

**Approved public health elective courses:**

- **PUBH 6004** Environmental and Occupational Health in a Sustainable World
- **PUBH 6006** Mgt & Policy Approaches to PH
The Master’s Comprehensive Examination

The Master’s Comprehensive Examination is a written comprehensive examination in the field of Biostatistics and is based on the course content PUBH 6266 Biostatistical Methods. It is administered by the faculty from the Department of Epidemiology and Biostatistics in the Milken Institute School of Public Health.