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).

33 credits, including 27 credits in required courses and 6 credits in elective courses, and successful completion of a master’s comprehensive examination.

Admission Considerations

The courses listed below (or course equivalents) are prerequisites for admission consideration and must appear on the student’s transcript. Students may apply to the program only after they have fulfilled this requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1231</td>
<td>Single-Variable Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 1232</td>
<td>Single-Variable Calculus II</td>
<td></td>
</tr>
<tr>
<td>STAT 2118</td>
<td>Regression Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Applicants lacking the courses listed below (or course equivalents) are considered for admission; however, if admitted, the student is required to complete these courses within two semesters of matriculation in the program. Credit earned in these courses does not count toward the 33 credits required for the degree and grades earned are not reflected in the overall grade-point average.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2184</td>
<td>Linear Algebra I</td>
<td></td>
</tr>
<tr>
<td>MATH 2233</td>
<td>Multivariable Calculus</td>
<td></td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1129</td>
<td>Introduction to Computing</td>
<td></td>
</tr>
<tr>
<td>STAT 2183</td>
<td>Intermediate Statistics Lab/Packages</td>
<td></td>
</tr>
<tr>
<td>PUBH 6249</td>
<td>Use of Statistical Packages: Data Management and Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 6001</td>
<td>Biological Concepts in Public Health</td>
<td></td>
</tr>
<tr>
<td>PUBH 6003</td>
<td>Principles and Practices of Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PUBH 6265</td>
<td>Design of Medical Studies</td>
<td></td>
</tr>
<tr>
<td>PUBH 6266</td>
<td>Biostatistical Methods (Basis for Master’s Comprehensive Examination)</td>
<td></td>
</tr>
<tr>
<td>PUBH 6299</td>
<td>Topics in Epidemiology and Biostatistics</td>
<td></td>
</tr>
<tr>
<td>STAT 6201</td>
<td>Mathematical Statistics I</td>
<td></td>
</tr>
<tr>
<td>STAT 6202</td>
<td>Mathematical Statistics II</td>
<td></td>
</tr>
<tr>
<td>STAT 6210</td>
<td>Data Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 6227</td>
<td>Survival Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Electives

6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 6004</td>
<td>Environmental and Occupational Health in a Sustainable World</td>
<td></td>
</tr>
<tr>
<td>PUBH 6006</td>
<td>Management and Policy Approaches to Public Health</td>
<td></td>
</tr>
<tr>
<td>PUBH 6121</td>
<td>Environmental and Occupational Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PUBH 6242</td>
<td>Clinical Epidemiology and Public Health: Reading the Research</td>
<td></td>
</tr>
<tr>
<td>PUBH 6244</td>
<td>Cancer Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PUBH 6245</td>
<td>Infectious Disease Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PUBH 6246</td>
<td>Injury/Epidemiology &amp; Prevention</td>
<td></td>
</tr>
<tr>
<td>PUBH 6248</td>
<td>Epidemiology of Aging</td>
<td></td>
</tr>
<tr>
<td>PUBH 6250</td>
<td>Epidemiology of HIV/AIDS</td>
<td></td>
</tr>
<tr>
<td>STAT 3187</td>
<td>Introduction to Sampling</td>
<td></td>
</tr>
<tr>
<td>STAT 4181</td>
<td>Applied Time Series Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 4188</td>
<td>Nonparametric Statistics Inference</td>
<td></td>
</tr>
<tr>
<td>STAT 6215</td>
<td>Applied Multivariate Analysis I</td>
<td></td>
</tr>
<tr>
<td>STAT 6216</td>
<td>Applied Multivariate Analysis II</td>
<td></td>
</tr>
<tr>
<td>STAT 6217</td>
<td>Design of Experiments</td>
<td></td>
</tr>
</tbody>
</table>

1 Master of Science in the Field of Biostatistics
The Master’s Comprehensive Examination

The master’s comprehensive examination is a written exam in the field of biostatistics and is based on the content covered in PUBH 6266 Biostatistical Methods. It is administered by the faculty of the Department of Epidemiology and Biostatistics in the Milken Institute School of Public Health.

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