MASTER OF SCIENCE IN
THE FIELD OF MOLECULAR
BIOCHEMISTRY AND
BIOINFORMATICS

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/#degreeregulationstext).

Prerequisites: a bachelor's degree. The undergraduate program must have included the following courses or equivalent:
BISC 1111-BISC 1112; CHEM 2122, CHEM 2151-CHEM 2152, PHYS 1011.

**Required courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOC 6221</td>
<td>Proteins, Pathways, and Human Health</td>
</tr>
<tr>
<td>BIOC 6222</td>
<td>Biochemical Genetics and Medicine</td>
</tr>
<tr>
<td>BIOC 6223</td>
<td>Bioinformatics</td>
</tr>
<tr>
<td>BIOC 6227</td>
<td>Biochemistry Seminar</td>
</tr>
</tbody>
</table>

**For the biochemistry track, additional required courses are:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 6224</td>
<td>Molec biol and protein methods</td>
</tr>
<tr>
<td>BIOC 6260</td>
<td>Analytic Methods for Lipids and Carbohydrates</td>
</tr>
</tbody>
</table>

**For the bioinformatics track, additional required courses are:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOC 6236</td>
<td>Medical Genomics</td>
</tr>
<tr>
<td>BIOC 6237</td>
<td>Proteomics and biomarkers</td>
</tr>
<tr>
<td>BIOC 6240</td>
<td>Next Generation Sequencing</td>
</tr>
</tbody>
</table>

Students may choose either a 30-credit thesis or non-thesis option.