### Prerequisite Courses for Applicants

<table>
<thead>
<tr>
<th>Course Titles</th>
<th>Semester Credit Hours (minimum)</th>
<th>Quarter Credit Hours (minimum)</th>
<th>Binghamton University (BU) course number</th>
<th>BU Fall</th>
<th>BU Spring</th>
<th>BU Summer</th>
<th>Additional Notes (only semester hours are listed here)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
<td>3 (4 at BU)</td>
<td>4</td>
<td>WRIT 111</td>
<td>X</td>
<td>X</td>
<td></td>
<td>• Must include oral and written communication</td>
</tr>
<tr>
<td>English II</td>
<td>3 (2 at BU)</td>
<td>4</td>
<td>Any ENG or science Seminar course; no ESL</td>
<td>X</td>
<td>X</td>
<td>Term I or II</td>
<td></td>
</tr>
<tr>
<td>General Biology I with Lab</td>
<td>4</td>
<td>6</td>
<td>BIOL 118</td>
<td>X</td>
<td>X</td>
<td>Term I</td>
<td>• Must be Biology courses required of majors</td>
</tr>
<tr>
<td>General Biology II with Lab</td>
<td>4</td>
<td>6</td>
<td>BIOL 117</td>
<td>X</td>
<td>X</td>
<td>Term II</td>
<td>• If General Biology is not available, you may take</td>
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<td></td>
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<td></td>
<td></td>
<td>Cell Biology, Zoology, Genetics, Cell and Molecular</td>
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<td></td>
<td></td>
<td></td>
<td>Biology</td>
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<td></td>
<td>• AP Biology accepted, score 4-5 for Biol 1 &amp; score</td>
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<td></td>
<td></td>
<td></td>
<td>5 for Biol II</td>
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<td>• At BU: A score of 5 on AP Biology = BIOL 118 &amp;</td>
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<td>117; a score of 4 = BIOL 118 OR 117</td>
</tr>
<tr>
<td>General Chemistry I with Lab</td>
<td>4</td>
<td>6</td>
<td>CHEM 107 or 111</td>
<td>X</td>
<td>X</td>
<td>CHEM 107 Term I</td>
<td>• Must be Chemistry courses required of majors</td>
</tr>
<tr>
<td>General Chemistry II with Lab</td>
<td>4</td>
<td>6</td>
<td>CHEM 108 or 341</td>
<td>CHEM 341</td>
<td>CHEM 108</td>
<td>CHEM 108 Term I</td>
<td>• AP Chemistry accepted providing a lab has been</td>
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<td></td>
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<td>completed, score 4-5</td>
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<tr>
<td>Organic Chemistry I</td>
<td>4</td>
<td>6</td>
<td>CHEM 231</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>• At BU: A score of 4 on AP Chemistry = CHEM 107;</td>
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<td>score of 5 = CHEM 107 &amp; 108.</td>
</tr>
<tr>
<td>Organic Chemistry II with Lab</td>
<td>4</td>
<td>6</td>
<td>CHEM 332 + CHEM 335 (LAB – 2 credit hours)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>• Must be Chemistry courses required of majors</td>
</tr>
<tr>
<td>Biochemistry (preferred but</td>
<td>4</td>
<td>6</td>
<td>BCHM/BIOL 403</td>
<td>X</td>
<td>X</td>
<td></td>
<td>optional)</td>
</tr>
<tr>
<td>Microbiology</td>
<td>4</td>
<td>6</td>
<td>BIOL 314</td>
<td>X</td>
<td></td>
<td></td>
<td>• Lab (BU BIOL 326 - 2 credit hours) is optional</td>
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<tr>
<td>Separate courses:</td>
<td>4</td>
<td>6</td>
<td>BIOL 251</td>
<td>X</td>
<td></td>
<td>Term I</td>
<td>• If Anatomy is separate from Physiology, then 4</td>
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<tr>
<td>Anatomy/Physiology</td>
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<td>credit hours of Anatomy are required and 6 credit</td>
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<tr>
<td>Or Anatomy &amp; Physiology as single</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>hours of Physiology</td>
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<tr>
<td>course</td>
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<td></td>
<td>• Anatomy &amp; Physiology course at a 2 year College</td>
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<td>must be supplemented with a Mammalian Physiology</td>
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<td></td>
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<td>course at a 4 year institution</td>
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<tr>
<td>Physics with Lab</td>
<td>4</td>
<td>6</td>
<td>PHYS 121</td>
<td>X</td>
<td></td>
<td>Term I</td>
<td>• Physics for science majors preferred.</td>
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<tr>
<td>(optional)</td>
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<td></td>
<td>• AP Physics accepted</td>
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<td></td>
<td>• New Physics I exam: score 4-5; Physics C exam: score</td>
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<td>4-5</td>
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<td>• Score of 5 on Physics C: Electricity and Magnetism =</td>
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<td></td>
<td></td>
<td>PHYS 132 (students must take PHYS 121 or 131)</td>
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<td>• Score of 5 on Physics C: Mechanics = PHYS 131</td>
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<td>(students still have to take PHYS 122 or 132)</td>
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<td>• New Physics 1 score of 5 = PHYS 121</td>
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<td>• New Physics 2 score of 5 = PHYS 122.</td>
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<td>• Score less than 5 on Physics 1 but 5 on Physics 2</td>
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<td></td>
<td></td>
<td>= must take Physics 121</td>
</tr>
<tr>
<td>Calculus I</td>
<td>2</td>
<td>6</td>
<td>MATH 224 + 225</td>
<td>X</td>
<td>X</td>
<td></td>
<td>• AP Calculus AB and BC accepted, score 4-5 AB</td>
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<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>exam for CALC I and score 4-5 BC for CALC II</td>
</tr>
<tr>
<td>Calculus II</td>
<td>2</td>
<td>6</td>
<td>MATH 226 + 227</td>
<td>X</td>
<td>X</td>
<td></td>
<td>• AT BU: Score of 5 on AB = MATH 224 &amp; 225; Score 4-5</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>on BC calculus Chemistry = MATH 224 &amp; 225.</td>
</tr>
<tr>
<td>Statistics</td>
<td>4</td>
<td>6</td>
<td>MATH 147 or 148 or PSYC 243 (for majors only)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>• AP statistics accepted, score 4-5</td>
</tr>
<tr>
<td>Economics</td>
<td>3 (4 at BU)</td>
<td>4</td>
<td>ECON 160</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>• sociology, psychology, geography, human development,</td>
</tr>
<tr>
<td>Social or Behavioral Science</td>
<td>2</td>
<td>3</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>etc.</td>
</tr>
</tbody>
</table>