<table>
<thead>
<tr>
<th><strong>Roosevelt University</strong> Pre-Pharmacy Requirements</th>
<th><strong>Michigan State University Course Equivalents</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology I with Laboratory</td>
<td>BS 161 – Cell and Molecular Biology <strong>AND</strong> BS 171 – Cell and Molecular Biology Laboratory</td>
</tr>
<tr>
<td>General Biology II with Laboratory</td>
<td>BS 162 – Organismal and Population Biology <strong>AND</strong> BS 172 – Organismal and Population Biology Lab</td>
</tr>
<tr>
<td>Anatomy and Physiology I with Laboratory</td>
<td>KIN 216 – Applied Human Anatomy</td>
</tr>
<tr>
<td>Anatomy and Physiology II with Laboratory</td>
<td>PSL 431 – Human Physiology I</td>
</tr>
<tr>
<td>Microbiology</td>
<td>MMG 301 – Introductory Microbiology</td>
</tr>
<tr>
<td>General Chemistry I with Laboratory</td>
<td>CEM 151 – General and Descriptive Chemistry <strong>AND</strong> CEM 161 – Chemistry Laboratory I</td>
</tr>
<tr>
<td>General Chemistry II with Laboratory</td>
<td>CEM 152 – Principles of Chemistry <strong>AND</strong> CEM 162 – Chemistry Laboratory II</td>
</tr>
<tr>
<td>Organic Chemistry I with Laboratory</td>
<td>CEM 251 – Organic Chemistry I</td>
</tr>
<tr>
<td>Organic Chemistry II with Laboratory</td>
<td>CEM 252 – Organic Chemistry II <strong>AND</strong> CEM 255 – Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>Calculus I</td>
<td>MATH 132 – Calculus I</td>
</tr>
<tr>
<td>Physics I with Laboratory</td>
<td>PHY 231 – Introductory Physics I <strong>AND</strong> PHY 251 – Introductory Physics I Laboratory</td>
</tr>
<tr>
<td>English Composition I</td>
<td>WRA 1004 – Preparation for College Writing</td>
</tr>
<tr>
<td>English Composition II</td>
<td>WRA 110 – Writing: Science and Technology</td>
</tr>
<tr>
<td>Speech Communication</td>
<td>COM 100 – Human Communication</td>
</tr>
<tr>
<td>Economics (micro or macro)</td>
<td>EC201 – Introduction to Microeconomics <strong>OR</strong> EC 202 – Introduction to Macroeconomics</td>
</tr>
<tr>
<td>Statistics (general or biostatistics)</td>
<td>STT 200 – Statistical Methods</td>
</tr>
<tr>
<td>Humanities (no studio or performance)</td>
<td>e.g., Art, Philosophy, Literature</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>e.g., Psychology, Sociology, Anthropology, Political Science</td>
</tr>
</tbody>
</table>