### SUGGESTED SEQUENCE AT LORAIN COUNTY COMMUNITY COLLEGE

#### First Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
<th>Spring Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 161 College Composition I (grade of C- or higher required)</td>
<td>3</td>
<td>ENGL 162 College Composition II (grade of C- or higher required)</td>
<td>3</td>
</tr>
<tr>
<td>BIOG 161 Principles of Biology I</td>
<td>4</td>
<td>BIOG 162 Principles of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CHMY 171 General Chemistry I</td>
<td>5</td>
<td>CHMY 172 General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>MTHM 168 Statistics* or MTHM 181 Calculus I*</td>
<td>3 or 5</td>
<td>MTHM 181 Calculus I* or MTHM 182 Calculus II*</td>
<td>5</td>
</tr>
<tr>
<td>SDEV 101 College 101</td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td>16 or 18</td>
<td><strong>Semester Total</strong></td>
<td>17</td>
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</table>

#### Second Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
<th>Spring Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHMY 271 Organic Chemistry I</td>
<td>5</td>
<td>BIOG 260 Botany</td>
<td>4</td>
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<tr>
<td>BIOG 275 Genetics</td>
<td>4</td>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>Arts &amp; Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Arts &amp; Humanities Elective</td>
<td>3</td>
<td>General Elective</td>
<td>3</td>
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<tr>
<td><strong>Semester Total</strong></td>
<td>15</td>
<td><strong>Semester Total</strong></td>
<td>13</td>
</tr>
</tbody>
</table>

**Total minimum credits earned at LCCC**

61 or 63

**Associate of Science Awarded**

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### SUGGESTED SEQUENCE AT CSU

#### Third Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
<th>Spring Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 231 College Physics I</td>
<td>4</td>
<td>BIO 306/307 or BIO 304/305**</td>
<td>4</td>
</tr>
<tr>
<td>BIO 302/303 or 308/309 **</td>
<td>4</td>
<td>Biology Elective**</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>PHY 232 College Physics II</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>General Elective</td>
<td>3</td>
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<tr>
<td><strong>Semester Total</strong></td>
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<td><strong>Semester Total</strong></td>
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</tbody>
</table>

#### Fourth Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
<th>Spring Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 390 Writing in Biology (Recommended)**</td>
<td>3</td>
<td>BIO 499 Exit Evaluation</td>
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<tr>
<td>Biology Elective**</td>
<td>4</td>
<td>BIO 495 Seminar**</td>
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<tr>
<td>Biology Elective**</td>
<td>4</td>
<td>Biology Elective**</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>1</td>
<td>General Elective 300/400 Level (if Needed)</td>
<td>3</td>
</tr>
<tr>
<td>General Elective 300/400 Level (If Needed)</td>
<td>3</td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Elective</td>
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</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td>15</td>
<td><strong>Semester Total</strong></td>
<td>13 or 15</td>
</tr>
</tbody>
</table>

**Bachelor of Science Awarded**

120

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Pre-Requisites:
- College-ready in MATH and ENG
- 2 years of the same foreign language completed in high school
- Students who do not meet these pre-requisites may need to complete additional credits

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*BS in Biology requires completion of one of the following math combinations: (1) MTHM 168 & STA 347 at CSU; (2) MTHM 181 & 182; or (3) MTHM 168 & 181.

**Biology majors must have a minimum cumulative GPA of 2.0 across all CSU biology courses used to fulfill the major-field requirements.

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Students who do not meet the Associate of Science degree are responsible for the completion of the entire General Education Requirements at Cleveland State University.

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This map represents one example of how to complete the AS and BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options.

CSU requires a minimum of 120 total credit hours for graduation. At least 30 credits must be completed in-residence at CSU. At least 24 of the in-residence credits must be completed at the upper division (300/400) level. An overall total of 42 upper division (300/400) level credits are required. Students deficient in total credits or in-residence must take additional elective credits to meet the minimum requirements. Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

Updated March 2019