Program Description
The Biology Transfer Pathway AS offers students a powerful option: the opportunity to complete an Associate of Science degree whose course credits will directly transfer to designated Biology bachelor’s degree programs at Minnesota State universities. The entire curriculum has been carefully designed to guarantee junior-year status to students who have been admitted to one of the seven Minnesota State universities. There, students can complete their bachelor’s degree by earning 60 additional credits. Students planning to transfer outside of the Minnesota State system are advised to consult with their intended transfer institution to determine transferability of the courses in this curriculum. Universities within the Minnesota State system include Bemidji State University; Metropolitan State University; Minnesota State University, Mankato; Minnesota State University, Moorhead; Southwest State University; St. Cloud State University; and Winona State University.

<table>
<thead>
<tr>
<th>REQUIRED COURSES*</th>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>MnTC Goal Area</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYE 1000</td>
<td>Student Success Seminar</td>
<td>1</td>
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</tr>
<tr>
<td>BIOL 1120</td>
<td>General Biology I</td>
<td>4</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>BIOL 1130</td>
<td>General Biology II</td>
<td>4</td>
<td></td>
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</tr>
<tr>
<td>BIOL 2210</td>
<td>Genetics</td>
<td>4</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>BIOL 2005 or BIOL 2200</td>
<td>Cell and Molecular Biology or General Ecology</td>
<td>4</td>
<td>10</td>
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<tr>
<td>COMM 1100 or COMM 1105 or COMM 1110 or COMM 1115</td>
<td>Intro to Communication or Interpersonal Communication or Public Speaking or Intercultural Communication</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1106</td>
<td>College Composition I</td>
<td>3</td>
<td>1</td>
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<tr>
<td>ENGL 1109</td>
<td>College Composition II</td>
<td>3</td>
<td>1</td>
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<tr>
<td>MATH 1100 or higher</td>
<td>College Algebra (refer to designated university requirements)</td>
<td>3-5</td>
<td>4</td>
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</tr>
<tr>
<td>MATH 2210</td>
<td>General Statistics</td>
<td>3</td>
<td>4</td>
<td></td>
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</tr>
<tr>
<td>CHEM 1210</td>
<td>General Chemistry I</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry II</td>
<td>5</td>
<td></td>
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<tr>
<td></td>
<td>History, Social and Behavioral Sciences – one course</td>
<td>3</td>
<td>5</td>
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<tr>
<td></td>
<td>Humanities and Fine Arts – one course</td>
<td>3</td>
<td>6</td>
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<tr>
<td></td>
<td>Unrestricted Elective Courses</td>
<td>10-12</td>
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<tr>
<td><strong>Total credits</strong></td>
<td><strong>60</strong></td>
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</table>

*Courses may require a prerequisite

Pre-program Requirements
To begin this program, you need to be at a specific skill level in English/reading and mathematics.

**English/Reading:** College Level

**Mathematics:** College Level

*For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the professional advising team at pat@lsc.edu or 218-733-7601*
**NOTE:** The following Minnesota State university transfer information and designated degrees are subject to change. Refer to the Lake Superior College program webpage for updated information and contact your Lake Superior College academic advisor for more details.

**Program Outcomes**
A student completing Lake Superior College’s Biology Transfer Pathway AS and transferring into a designated bachelor’s program in biology at a Minnesota State university will have junior standing and may complete the bachelor’s degree within an additional 60 credits. You will be able to transfer to the following designated majors at Minnesota State universities:

- **At Bemidji State University:**
  - Biology, BA, BS

- **At Metropolitan State University:**
  - Biology, BA

- **At Minnesota State University, Mankato:**
  - Biology, BS

- **At Minnesota State University, Moorhead:**
  - Biology, BA

- **At Southwest Minnesota State University:**
  - Biology, BA

- **At St. Cloud State University:**
  - Biomedical Science, BS

- **At Winona State University:**
  - Biology - Allied Health, BS
  - Biology - Cell & Molecular, BS
  - Biology - Ecology, BS
  - Biology - Environmental Science, BS

In order to graduate and be guaranteed admission to a Minnesota State university’s designated program in biology you must earn an overall grade point average as indicated by the university to which you will transfer.

For more information about the Biology Transfer Pathway AS including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program website: [https://degrees.lsc.edu/](https://degrees.lsc.edu/)

- or -

Contact Faculty
Glenn Merrick at g.merrick@lsc.edu
Biology Transfer Pathway AS - 60 credits
(Fall 2018)

***REMEMBER TO REGISTER EARLY***

Suggested course sequence for a full time student averaging 15 credits per semester

<table>
<thead>
<tr>
<th>First Semester</th>
<th>16 – 18 credits</th>
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<tbody>
<tr>
<td>FYE 1000 – First Year Experience</td>
<td>1 credit</td>
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<tr>
<td>ENGL 1106 - College Composition I</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIOL 1120 – General Biology I</td>
<td>4 credits</td>
</tr>
<tr>
<td>MATH 1100 – College Algebra or higher</td>
<td>3 – 5 credits</td>
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<tr>
<td>CHEM 1210 – General Chemistry I</td>
<td>5 credits</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>15 credits</th>
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<tbody>
<tr>
<td>BIOL 1130 – General Biology II</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHEM 1211 – General Chemistry II</td>
<td>5 credits</td>
</tr>
<tr>
<td>COMM 1000, 1105, 1110, or 1115</td>
<td>3 credits</td>
</tr>
<tr>
<td>Goal Area 5 course</td>
<td>3 credits</td>
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</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>13 – 15 credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 2200 – General Ecology or BIOL 2005 – Cell and Molecular Biology</td>
<td>4 credits</td>
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<tr>
<td>MATH 2210 – General Statistics</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENGL 1009 – College Composition II</td>
<td>3 credits</td>
</tr>
<tr>
<td>Unrestricted Elective*</td>
<td>3 – 5 credits</td>
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</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>13 – 17 credits</th>
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<tbody>
<tr>
<td>BIOL 2210 – Genetics</td>
<td>4 credits</td>
</tr>
<tr>
<td>Goal Area 6 course</td>
<td>3 credits</td>
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<tr>
<td>Unrestricted Elective*</td>
<td>3 – 5 credits</td>
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<tr>
<td>Unrestricted Elective*</td>
<td>3 – 5 credits</td>
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Below is a list of suggested unrestricted electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
<th>MnTC Goal Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1140</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1141</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
<td>3</td>
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<tr>
<td>CHEM 2110</td>
<td>Elementary Organic Chemistry I</td>
<td>5</td>
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<tr>
<td>CHEM 2111</td>
<td>Elementary Organic Chemistry II</td>
<td>5</td>
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<tr>
<td>ENSC 1200</td>
<td>Introduction to Environmental Science</td>
<td>4</td>
<td>3, 10</td>
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<tr>
<td>ENSC 2010</td>
<td>World Health and the Environment</td>
<td>3</td>
<td>10</td>
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<tr>
<td>GEOG 1120</td>
<td>Physical Geography</td>
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<td>3, 10</td>
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<tr>
<td>GEOL 1110</td>
<td>Introduction to Geology</td>
<td>4</td>
<td>3, 10</td>
</tr>
<tr>
<td>PHYS 1201</td>
<td>Introduction to Physics</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting Disability Services, disabilityservices@lsc.edu or (218) 733-7650 or MRS/TTY (800) 627-3529.