

## Biology Transfer Pathway AS - 60 credits

(Fall 2023)

\*\*\*REMEMBER TO REGISTER EARLY\*\*\*

### 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.

### Pre-program Requirements

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

#### English/Reading:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may not be taken concurrently with Semester I coursework.

**Mathematics:** A college level math course is required for graduation. Students must satisfy course prerequisites for college level math courses, which may require more than one semester of additional math. Connect with your advisor for assistance with course placement.

There are other ways to qualify. Visit [Course Placement](http://lsc.edu/course-placement) (lsc.edu/course-placement) to find out more.

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](mailto:advising@lsc.edu) (advising@lsc.edu) or 218-733-7601

### Required Courses

Course	Course Title	Credits	MnTC Goal Area	Term
FYE 1000	First Year Experience	1		
BIOL 1120*	General Biology I	4	3	
BIOL 1130*	General Biology II	4		
BIOL 2210*	Genetics	4		
BIOL 2005* or BIOL 2200*	Cell and Molecular Biology General Ecology	4	10	
COMM 1100* or COMM 1105* or COMM 1110* or COMM 1115*	Intro to Communication Interpersonal Communication Public Speaking Intercultural Communication	3	1 1 1,7	
ENGL 1106*	College Composition I	3	1	
ENGL 1109*	College Composition II	3	1	
MATH 1100* or higher	College Algebra (refer to designated university requirements)	3-5	4	
MATH 2210*	General Statistics	3	4	
CHEM 1210*	General Chemistry I	5	3	
CHEM 1211*	General Chemistry II	5		
	History, Social and Behavioral Sciences – one course	3	5	
	Humanities and Fine Arts – one course	3	6	
	Unrestricted Elective Courses	10-12		

**Total credits** **60**

\*Courses may require a prerequisite



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**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:

Life Sciences, BES, Biology, Biodiversity, Ecology, and Evolution (BEES)

At Winona State University:

Biology, BS (Allied Health, Cell & Molecular, Ecology, Environmental Science)

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, and potential career opportunities, see the [program website](https://degrees.lsc.edu/biology-transfer-pathway/) (https://degrees.lsc.edu/biology-transfer-pathway/)

or

Contact Faculty, [Glenn Merrick](mailto:glenn.merrick@lsc.edu) (glenn.merrick@lsc.edu) or 218-733-7772

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

<b>16 – 18 credits</b>	
<b>First Semester:</b>	
FYE 1000 – First Year Experience	1 credit
ENGL 1106 - College Composition I	3 credits
BIOL 1120 – General Biology I	4 credits
MATH 1100 – College Algebra or higher	3 – 5 credits
CHEM 1210 – General Chemistry I	5 credits
<b>Second Semester</b>	
<b>15 credits</b>	
BIOL 1130 – General Biology II	4 credits
CHEM 1211 – General Chemistry II	5 credits
COMM 1000, 1105, 1110, or 1115	3 credits
Goal Area 5 course	3 credits
<b>Third Semester</b>	
<b>13 – 15 credits</b>	
BIOL 2200 – General Ecology or BIOL 2005 – Cell and Molecular Biology	4 credits
MATH 2210 – General Statistics	3 credits
ENGL 1009 – College Composition II	3 credits
Unrestricted Elective*	3 – 5 credits
<b>Fourth Semester</b>	
<b>13 – 17 credits</b>	
BIOL 2210 – Genetics	4 credits
Goal Area 6 course	3 credits
Unrestricted Elective*	3 – 5 credits
Unrestricted Elective*	3 – 5 credits
<b>Total Credits</b>	<b>60</b>

### Below is a list of suggested unrestricted electives

Course	Course Title	Credits	MnTC Goal Area
BIOL 1140	Human Anatomy and Physiology I	4	3
BIOL 1141	Human Anatomy and Physiology II	4	3
CHEM 2110	Elementary Organic Chemistry I	5	
CHEM 2111	Elementary Organic Chemistry II	5	
ENSC 1200	The Environment and Sustainability	4	3, 10
ENSC 2010	World Health and the Environment	3	10
GEOG 1120	Physical Geography	4	3, 10
GEOL 1110	Introduction to Geology	4	3, 10
PHYS 1201	Introduction to Physics	5	3