

## Biology Transfer Pathway AS DEGREE

### Program Overview

The Biology Transfer Pathway AS degree is awarded for successful completion of 60 credits in science and liberal arts. It is designed to constitute the first two years of a bachelor's degree in Biology.

### Career Opportunities

A biology major is a good choice for students who are intrigued by living things. Upon completion of the Biology Transfer Pathway AS degree, students will have learned to apply the scientific method, set up experiments, and use laboratory equipment. Students will develop laboratory skills, techniques, and procedures allowing them to gather, organize, and analyze data. As graduates in Biology, students can choose a number of career options from technical scientific laboratory careers to education. Salaries will vary depending on the chosen career path.

### Program Outcomes

1. Implement scientific processes through experimentation, data analysis, and the use of common tools in a biology laboratory (i.e. microscope, spectrophotometer, electrophoresis).
2. Communicate scientific findings through the use of appropriate technology.
3. Describe major biological concepts and various biological systems and their interactions.
4. Apply biological concepts to contemporary issues using scientific literature and appropriate knowledge from other disciplines.
5. Collaborate with others on designing, conducting, and evaluating projects.

### Program Faculty

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### Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> BIOL 1740 General Biology 1	5
<input type="checkbox"/> BIOL 1745 General Biology 2	5
<input type="checkbox"/> BIOL 2755 Genetics	4
<input type="checkbox"/> CHEM 1711 Principles of Chemistry 1	4
<input type="checkbox"/> CHEM 1712 Principles of Chemistry 2	4
<input type="checkbox"/> Program Electives (select 1 of the following)	4
BIOL 2750 General Microbiology – 4 cr	
These courses can be taken at partner institutions	
BIOL 17XX Cell and Molecular Biology – 5 cr	
BIOL 17XX General Ecology – 5 cr	
Century College	
Inver Hills Community College	
Minneapolis Community & Technical College	
Normandale Community College	
<b>Subtotal</b>	<b>26</b>

### General Education/MnTC Requirements Cr

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

<input type="checkbox"/> Goal 1: Communication	9
ENGL 1711 Composition 1 – 4 cr	
ENGL 1712 Composition 2 – 2 cr	
COMM 17XX – 3cr	
<input type="checkbox"/> Goal 4: Mathematical/Logical Reasoning	7
MATH 1730 College Algebra (or higher) – 3 cr	
<input type="checkbox"/> Goal 5: History, Social Science and Behavioral Sciences	3
<input type="checkbox"/> Goal 6: Humanities and Fine Arts	3
<input type="checkbox"/> Goals 1-10 of the Minnesota Transfer Curriculum	12
Select a minimum of 11-12 additional credits	
<b>General Education Requirements</b>	<b>34</b>

**Total Program Credits . . . . . 60**

### Transfer Opportunities

Saint Paul College has transfer agreements & partnerships between many post-secondary institutions. For more information please go to [saintpaul.edu/Transfer](http://saintpaul.edu/Transfer).

### Program Start Dates

Fall, Spring, Summer

### Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with the Program Faculty each semester.

#### First Semester

Goal 1: ENGL 1711 Composition 1	4
Goal 1: COMM 17XX	3
Goal 3: BIOL 1740 General Biology 1	5
Goal 4: MATH 1730 College Algebra (or higher)	3
<b>Total Semester Credits</b>	<b>15</b>

#### Second Semester

Goal 1: ENGL 1712 Composition 2	2
Goal 3: BIOL 1745 General Biology 2	5
Goal 3: CHEM 1711 Principles of Chemistry 1	4
Goal 5: History, Social Science and Behavioral Sciences	3
<b>Total Semester Credits</b>	<b>14</b>

#### Third Semester

Goal 3: CHEM 1712 Principles of Chemistry 2	4
Goal 3: BIOL 2755 Genetics	4
Goal 4: MATH 17XX College Algebra (or higher)	3-4
Goal 6: Humanities and Fine Arts	3
<b>Total Semester Credits</b>	<b>14-15</b>

#### Fourth Semester

Goals 1-10 MnTC Elective	11-12
Program Electives	4-5
<b>Total Semester Credits</b>	<b>15-17</b>

**Total Program Credits . . . . . 60**

*Information is subject to change.  
This Program Requirements Guide is not a contract.*

#### Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

**Reading:** Score of 250+ or grade of "C" or better in READ 0722 or READ 0724 or EAPP 0900

**Writing:** Score of 250+ on Reading Comprehension or grade of "C" or better in ENGL 0922 or EAPP 0900

**Adv. Algebra & Functions:** Score of 250+ or grade of "C" or better in MATH 0920

#### Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

TPBI