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.

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

Program Faculty

Anita Bansal anita.bansal@saintpaul.edu
Joanna Cregan joanna.cregan@saintpaul.edu
Mariann Gabrawy mariann.gabrawy@saintpaul.edu
Jim Gielissen jim.gielissen@saintpaul.edu
Rachel Hudson rachel.hudson@saintpaul.edu
Nasreen Mehmood nasreen.mehmood@saintpaul.edu
Kirstin Purcell kirstin.purcell@saintpaul.edu
Mary Stueve mary.stueve@saintpaul.edu

Program Requirements

☑ Check off when completed

Course	Cr
☐ BIOL 1740 General Biology 1	5
☐ BIOL 1745 General Biology 2	5
☐ BIOL 2755 Genetics	4
☐ CHEM 1711 Principles of Chemistry 1	4
☐ CHEM 1712 Principles of Chemistry 2	4
☐ Program Electives (select 1 of the following)	4-5
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	
Subtotal	**26-27**

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area	
☐ Goal 1: Communication	9
ENGL 1711 Composition 1 – 4 cr	
ENGL 1712 Composition 2 – 2 cr	
COMM 17XX – 3cr	
☐ Goal 3: Natural Sciences	4
Goal 3 met with courses above.	
☐ Goal 4: Mathematical/Logical Reasoning	3
MATH 1730 College Algebra (or higher) – 3 cr	
☐ Goal 5: History, Social Science and Behavioral Sciences	9
Minimum of three courses from two different disciplines	
☐ Goal 6: Humanities and Fine Arts	9
Minimum of three courses from two different disciplines	
☐ Goals 1-10 of the Minnesota Transfer Curriculum	3-4
Select a minimum of 3 additional credits	
General Education Requirements	**33-34**

Total Program Credits **60**

Program Start Dates

Fall, Spring, Summer

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Faculty with questions.

See back of this guide for Course Sequence and Transfer Opportunities

Minimum Program Entry Requirements
Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 0922

College Level Mathematics: Score of 50+ 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

SAINT PAUL COLLEGE
A Community & Technical College
235 Marshall Avenue
Saint Paul, MN 55102
TEL: 651.846.1600
www.saintpaul.edu

MINNESOTA STATE
Saint Paul College,
A member of Minnesota State

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Biology Transfer Pathway AS DEGREE *(continued)*

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 3
Total Semester Credits 15

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
Total Semester Credits 14

Third Semester

Goal 3: CHEM 1712 Principles of Chemistry 2 4
Goal 3: BIOL 2755 Genetics 4
Goal 5: History, Social Science and Behavioral Sciences 3
Goal 6: Humanities and Fine Arts 3
Total Semester Credits 14

Fourth Semester

Goal 5: History, Social Science and Behavioral Sciences 3
Goal 6: Humanities and Fine Arts 6
Goals 1-10 MnTC Elective 3-4
Program Electives 4-5
Total Semester Credits 17

Total Program Credits 60

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.

For more information please go to saintpaul.edu/Transfer.

Biology Transfer Pathway AS

BS	Biology – General Biology
BS	Biology – Ecology, Biodiversity, and Evolutionary Biology
BS	Biology – Environmental Science Bemidji State University
BA	Biology Metropolitan State University
BA	Biology
BS	Biology Minnesota State University, Mankato
BA	Biology
BA	Ecology Minnesota State University, Moorhead
BA	Biology Concentration Southwest Minnesota State University
BA	Biology St. Cloud State University
BA	Biology Winona State University