Program Requirements Guide 2020 - 2021

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.

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Program Requirements
☐ Check off when completed

Course | Cr
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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
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

General Education/MnTC Requirements

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

Total Program Credits | 60

Program Start Dates
Fall, Spring, Summer

See back of this guide for Course Sequence & Transfer Opportunities

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
Writing: Score of 250+ on Reading Comprehension or grade of “C” or better in ENGL 0922
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.

Information is subject to change.
This Program Requirements Guide is not a contract.
### 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
- **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 4: MATH 17XX College Algebra (or higher) ... 3-4
- Goal 6: Humanities and Fine Arts .................. 3
- **Total Semester Credits** .................. 14-15

#### Fourth Semester
- Goals 1-10 MnTC Elective ........................ 11-12
- Program Electives .............................. 4-5
- **Total Semester Credits** .................. 15-17

**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
- Minnesota State University, Moorhead
- BA Biology Concentration
- Southwest Minnesota State University
- BA Biology
- St. Cloud State University
- BA Biology
- Winona State University

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