

## Biology A.S. Transfer Pathway

## Saint Paul College

This document is designed for community college students completing the Biology A.S. Transfer Pathway. Students who do not intend to complete the 60-credit degree should contact Transfer Admission at [admission@hamline.edu](mailto:admission@hamline.edu) for course selection advice. All courses must be completed with a C- or better to transfer. If planning to apply to graduate school, courses should be graded a B or better. Although not required, completing the MnTC prior to transfer is advantageous for students. Learn more about the Hamline Plan alignment with the MnTC here:

(<https://www.hamline.edu/admission-aid/admission/transfer/mntc-hamline-plan>).

The table below lists the Saint Paul College courses that have approved equivalencies at Hamline or fulfill requirements for the Biology B.S. major and general graduation requirements.

Saint Paul College Course - Major	Hamline Plan	Credits	Hamline University Course
BIOL 1740 General Biology I	N1	5	BIOL 1510 Integrated Concepts in Biology I
BIOL 1745 General Biology II	N1	5	BIOL 1520 Integrated Concepts in Biology II
BIOL 2755 Genetics		4	BIOL 3050 Principles of Genetics
CHEM 1711 Principles of Chemistry I		4	CHEM 1130 General Chemistry I
CHEM 1712 Principles of Chemistry II		4	CHEM 1140 General Chemistry II
<b>Choose one of the following:</b> BIOL 2750 General Microbiology These courses can be taken at partner institutions (Century, Inver Hills, MCTC, Normandale): BIOL 17XX Cell and Molecular Biology BIOL 17XX Ecology*		4	BIOL 3XXX 3000-level elective  BIOL 3XXX 3000-level elective BIOL 3030 Ecology
<b>Goal Area 1:</b> ENGL 1711 Composition 1 ENGL 1712 Composition 2 COMM 17XX Goal 1 course	E O	9	FYW 1110 Critical Reading and Composition FYW 1120 First Year Writing COMM XXXX
<b>Goal Area 4:</b> MATH 1730 College Algebra <i>AND choose one of the following:</i> MATH 1740 Introduction to Statistics* MATH course higher than College Algebra	R & M	7	MATH TRAN General Credit  MATH 1200 Statistics Varies
<b>Goal Area 5 – One course</b>	S	3	Varies
<b>Goal Area 6 – One course</b>	H or F	3	Varies
<b>Additional electives in MnTC Goal Areas 1-10. Recommended for students seeking B.S.:</b>  MATH 2749 Calculus I  PHYS 2700 General Physics 1 (with Calculus) PHYS 2710 General Physics 2 (with Calculus) <i>or</i> PHYS 1720 Principles of Physics 1 PHYS 1722 Principles of Physics 2		12	MATH 1170 Calculus I  PHYS 1230 General Physics I PHYS 1240 General Physics II  PHYS 1150 Algebra-Based Physics I PHYS 1160 Algebra-Based Physics II
<b>Total credits for A.S. degree</b>		<b>60</b>	
*Recommended for Hamline University			

Remaining major courses for Biology B.S. degree	Credits
<b>Diversity, Equity, Ethics, and Inclusion in Science (choose one):</b> BIOL 1980 Special Topics: Inclusive Science or STEM Equity (Hamline Plan D) PHIL 1140 Ethics (Hamline Plan H) PHIL 1980 Special Topics: Bioethics (Hamline Plan H)	4
CHEM 3450 Organic Chemistry I	4
<b>Two Supporting Courses**:</b> CHEM 3460 Organic Chemistry II MATH 1170 Calculus I MATH 1180 Calculus II PBHL 3100 Epidemiology PHYS 1150 Algebra-Based Physics I PHYS 1160 Algebra-Based Physics II PHYS 1230 General Physics I PHYS 1240 General Physics II NEUR 3100 Neurological Diseases, Disorders, and Society CDS 1010 Introduction to Programming (Hamline Plan C) CDS 1020 Introduction to Computational Data Science (Hamline Plan D)	0-8
<b>Statistics (choose one):**</b> MATH 1200 Statistics OR QMBE 1310 Statistics	0-4
<b>Select Biology electives (5 courses) which must include:</b> One course from each category (3 categories), and one course must be at the 5000 level	16-20
<b>Recommended course (consult with faculty advisor, can meet Hamline Plan P):</b> BIOL 5700 Biology Research <b>OR</b> BIOL 4010 Collaborative Research (not counted as BIOL elective) <b>OR</b> Internship (not counted as BIOL elective)	0-4
<b>Biology Seminars (1 credit per semester; free):</b> BIOL 5961, BIOL 5962, BIOL 5963, and BIOL 5964 (Hamline Plan O)	4
BIOL 5960 Senior Capstone (Hamline Plan Q, W)	4
<b>**May be transferred in from pathway</b>	
<b>Total Remaining Major Credits</b>	<b>32-48</b>

Remaining graduation requirements for B.S. degree	Credits
General Education Requirements:	
- Hamline Plan W - Writing Intensive (1 course if not met by remaining major courses)	0-4
- Hamline Plan S - Social Science (1 course)	4
- Hamline Plan F - Fine Arts (8 credits total; can be partially met by MnTC)	4-8
- Hamline Plan H - Humanities (2 courses if not met by MnTC and/or major courses)	0-8
- Hamline Plan D - Diversity (2 courses if not met by MnTC and/or major courses)	0-8
- Hamline Plan G - Global Citizenship (1 course if not met by MnTC)	0-4
- Hamline Plan C - Collaboration (1 course if not met by supporting major courses)	0-4
- Hamline Plan P - LEAP (1 course; see "recommended course" under remaining major courses)	2 or 4
Elective credits to reach minimum 128	Varies
<b>Total credits completed at Hamline University</b>	<b>68</b>
<b>Total credits for B.S. degree</b>	<b>128</b>

**Advising Notes:**

Concentrations are offered in Genetics, Molecular and Cellular Biology; Ecology and Evolutionary Biology; or Public Health: <https://www.hamline.edu/academics/undergraduate/biology>.

Microbiology is required as an upper division course for many graduate programs. If you plan to go on to graduate school, Microbiology should be taken after transfer.

Choice of elective courses should be based on your intended career and graduate school goals. Please contact Transfer Admission ([admission@hamline.edu](mailto:admission@hamline.edu)) for assistance before signing up for elective coursework. Please also consult with Transfer Admission when choosing courses for goal areas 5-10 to maximize meeting Hamline's graduation requirements.

Students transferring in at junior status should have the following courses completed in the major prior to transfer: BIOL 1740 and 1745, CHEM 1711 and 1712. Completing MATH 1740 and at least one of the BIOL 2xxx courses is highly recommended. Completing the full A.S. degree prior to transfer is highly recommended.

Hamline Biology B.A. degree requirements are identical to the B.S. degree, except for three courses (Organic Chemistry I and two additional supporting courses) that are omitted from the B.A.

A STEM Education program launched in Fall 2022. Contact Hamline Undergraduate Admission for details.

**Hamline Plan**

E - Expository Writing

O - Speaking Intensive

R - Formal Reasoning

M - Quantitative Reasoning

F - Fine Arts

H - Humanities

N - Natural Science (N1 lab, N2 non-lab)

S - Social Science

G - Global Citizenship

D - Diversity

C - Collaboration

W - Writing Intensive

Q - Independent Critical Inquiry and Information Literacy

P - LEAP: Liberal Education As Practice