

## Biology A.S. Transfer Pathway

## Century 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 Century courses that have approved equivalencies at Hamline or fulfill requirements for the Biology B.S. major and general graduation requirements.

Century College Course - Major	Hamline Plan	Credits	Hamline University Course
BIOL 1041 Principles of Biology I	N1	5	BIOL 1510 Integrated Concepts in Biology I
BIOL 1042 Principles of Biology II	N1	5	BIOL 1520 Integrated Concepts in Biology II
BIOL 2038 Genetics		4	BIOL 3050 Principles of Genetics
BIOL 2028 Ecology		4	BIOL 3030 Ecology
CHEM 1041 Principles of Chemistry I		5	CHEM 1130 General Chemistry I
CHEM 1042 Principles of Chemistry II		5	CHEM 1140 General Chemistry II
<b>Goal Area 1</b> ENGL 1021 Composition I ENGL 1022 Composition II <i>and choose one of the following:</i> COMM 1021 Fundamentals of Public Speaking COMM 1031 Interpersonal Communication COMM 1041 Small Group Communication COMM 1051 Intercultural Communication*	E  O O & D O O & G	10	FYW 1110 Critical Reading and Composition FYW 1120 First Year Writing  COMM 1110 Public Speaking COMM 1XXX 1000-level elective COMM 3380 Small Group Communication COMM 1XXX 1000-level elective
<b>Goal Area 4</b> MATH 1061 College Algebra I <i>AND choose one of the following:</i> MATH 1025 Statistics* MATH course higher than College Algebra I	R & M	8-10	MATH TRAN General Credit  MATH 1200 Statistics Varies
<b>Goal Area 5 Choose one:</b> <i>A.S. program recommendations:</i> PSYC 1020 General Psychology* PSYC 1041 Developmental Psychology: Lifespan*	S	3-4	PSY 1330 General Psychology PSY 1440 Lifespan Development
<b>Goal Area 6 Choose one:</b> <i>A.S. program recommendations:</i> PHIL 1031 Ethics* PHIL 1035 Biomedical Ethics PHIL 2032 Environmental Ethics	H H H	3	PHIL 1140 Ethics PHIL 1XXX 1000-level elective PHIL TRAN General Credit
<b>Goal Areas 7-10</b> <i>3 credits in each of two Goal Areas are required - Goal 7 and/or 8 recommended for B.S. program. Many courses for Goals 1-6 also meet Goals 7-10.</i>	Varies	0-3	Varies
<b>Additional Electives Any course 1000-level or above</b> MATH 1081 Single Variable Calculus I* MATH 1082 Single Variable Calculus II*		8	MATH 1170 Calculus I MATH 1180 Calculus 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><i>Diversity, Equity, Ethics, and Inclusion in Science (choose one):</i></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><i>Two Supporting Courses**:</i></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><i>Statistics (choose one):**</i></b> MATH 1200 Statistics OR QMBE 1310 Statistics	0-4
<b><i>Select Biology electives (4 courses) which must include:</i></b> One course from Biology of Organisms category One 5000-level course from any category	16
<b><i>Recommended course (consult with faculty advisor, can meet Hamline Plan P):</i></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><i>Biology Seminars (1 credit per semester; free):</i></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)	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 university</b>	<b>68</b>
<b>Total credits for B.S. degree</b>	<b>128</b>

**Advising Notes:**

Concentrations 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 Hamline Transfer Admissions (<https://www.hamline.edu/admission-aid/admission/transfer>) for assistance before signing up for elective course work. Consult with Hamline Transfer Admissions 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 1041 and 1042, CHEM 1041 and 1042. Completing MATH 1025 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 admissions 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