

Biology A.S. Transfer Pathway

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

Anoka Ramsey Community College Course - Major	Hamline Plan	Credits	Hamline University Course
BIOL 1106 Principles of Biology I	N1	4	BIOL 1510 Integrated Concepts in Biology I
BIOL 1107 Principles of Biology II	N1	4	BIOL 1520 Integrated Concepts in Biology II
BIOL 2202 Genetics		4	BIOL 3050 Principles of Genetics
Choose one of the following: BIOL 2209 General Ecology* BIOL 2208 Cell Biology* BIOL 2201 Microbiology		4	BIOL 3030 Ecology BIOL 3060 Principles of Cell Biology BIOL 3XXX 3000-level elective
CHEM 1061 Principles of Chemistry I		4	CHEM 1130 General Chemistry I
CHEM 1062 Principles of Chemistry II		4	CHEM 1140 General Chemistry II
Additional supporting electives (at least 14 credits): BIOL 2206 Animal Biology BIOL 2207 Plant Biology CHEM 2061 Organic Chemistry I* CHEM 2062 Organic Chemistry II MATH 1114 Introduction to Statistics* MATH 1400 Calculus I MATH 1401 Calculus II PHYS 1317 General Physics I PHYS 1318 General Physics II PHYS 1327 College Physics I PHYS 1328 College Physics II		14	BIOL 3XXX 3000-level elective BIOL 3XXX 3000-level elective CHEM 3450 Organic Chemistry I CHEM 3460 Organic Chemistry II MATH 1200 Statistics MATH 1170 Calculus I MATH 1180 Calculus II PHYS 1150 Algebra-Based Physics I PHYS 1160 Algebra-Based Physics II PHYS 1230 General Physics I PHYS 1240 General Physics II
Choose one of the following: ENGL 1120 Crosscurrent College Writing ENGL 1121 College Writing and Critical Reading	E	4	FYW 1120 First-Year Writing FYW 1120 First-Year Writing
Goal Area 1 - Choose one of the following: CMST 1110 Introduction to Communication CMST 2215 Public Speaking CMST 2220 Interpersonal Communication*	O O O & D	3	COMM 1100 Intro to Communication Studies COMM 1110 Public Speaking COMM 3360 Interpersonal Communication
Goal Area 4: MATH 1200 College Algebra MATH course higher than College Algebra	R & M	7-10	MATH TRAN General Credit Varies
Goal Area 5 - One Course	S	3	Varies
Goal Area 6 - One course	H or F	3	Varies
Additional MnTC credits to reach 30 MnTC credits total (Goal Area 8 recommended)	Varies	Varies	Varies
Total credits for A.S. Degree		60	
*Recommended for Hamline University			

Remaining major courses for Biology B.S. degree	Credits
Diversity, Equity, Ethics, and Inclusion in Science (choose one): 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
Two Supporting Courses**: 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
Statistics (choose one):** MATH 1200 Statistics OR QMBE 1310 Statistics	0-4
Select Biology electives (5 courses) which must include: One course from each category (3 categories), and one course must be at the 5000 level	16-20
Recommended course (consult with faculty advisor, can meet Hamline Plan P): BIOL 5700 Biology Research OR BIOL 4010 Collaborative Research (not counted as BIOL elective) OR Internship (not counted as BIOL elective)	0-4
Biology Seminars (1 credit per semester; free): BIOL 5961, BIOL 5962, BIOL 5963, and BIOL 5964 (Hamline Plan O)	4
BIOL 5960 Senior Capstone (Hamline Plan Q, W)	4
**May be transferred in from pathway	
Total Remaining Major Credits	32-52

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
Total credits completed at Hamline University	68
Total credits for B.S. degree	128

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 the Hamline Transfer Admission Counselor (<https://www.hamline.edu/admission-aid/admission/transfer>) for assistance before signing up for elective coursework. Please consult with the Hamline Transfer Admission Counselor 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 1106 and 1107, CHEM 1061 and 1062. Completing MATH 1114 and at least one BIOL 2xxx course 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