HAMLINE UNIVERSITY

Mathematics Transfer Pathway — Century College

This document is designed for Century College students completing the Mathematics Transfer Pathway A.A. with the intent to transfer to Hamline University and complete the Applied Mathematics B.S. degree. Students who do not intend to complete the 60-credit degree should contact Kaia Sherburne at ksherburne01@hamline.edu to plan course selections.

Below is the list of approved coursework from the pathway that meets general education requirements or Applied Math major requirements. All courses must be completed with a C- or better to transfer. Completing the MnTC is strongly recommended prior to transfer to graduate on time.

Century College Course	Hamline Plan	Credits	Hamline University Course (current status)
Required pathway courses:			
MATH 1081 Single Variable Calculus I	M, R	5	MATH 1170 Calculus I
MATH 1082 Single Variable Calculus II	M, R	5	MATH 1180 Calculus II
MATH 2081 Multivariable Calculus		5	MATH 3320 Multivariable and Vector Calculus
MATH 2082 Linear Algebra with Differential Equations		5	MATH 3330 Linear Algebra **OR** MATH 3720 Differential Equations
Goal 1			
ENGL 1020 **OR** 1021 Composition I, **AND**		4	FYW 1110 Critical Reading and Composition
ENGL 1022 Composition II **AND**	E	3	FYW 1120 Composition and Research
Choose one:			
COMM 1021 Fundamentals of Public Speaking	O	3	ENCM 1600 Public Speaking
COMM 1031 Interpersonal Communication	O, D	3	
COMM 1041 Small Group Communication	O	3	ENCM 3410 Studies in Professional Communication: Small Group Communication
COMM 1051 Intercultural Communication	O, G	3	ENCM 3460 Studies in Common and Cultural Rhetorics: Intercultural Communication
Goal 2 - fulfilled with MnTC requirements			
Goal 3 – two courses from different disciplines (one lab required), minimum 7 credits			
Examples:			
BIOL 1041 Principles of Biology I	N1	5	BIOL 1510 Integrated Concepts in Biology I
BIOL 1024 Human Biology	N2	3	BIOL 1120 BIology of Human Function
CHEM 1041 Principles of Chemistry I	N1	5	CHEM 1130 General Chemistry I
Goal 4 - fulfilled with pathway requirements			
Goal 5 - three courses from three different disciplines, minimum 9 credits			
Examples:			
SOC 1020 Introduction to Sociology	S, D	3	SJSC 1110 Society and Social Change
POLS 1031 American Government	S	3	PSCI 1110 American Government and Politics
PSYC 1020 General Psychology	S	4	PSY 1330 General Psychology
COMM 1061 Introduction to Mass Communication	S	3	ENCM 1320 Introduction to Media Studies

Goal 6 - three courses, at least one of which must be a literature course, from three different disciplines, minimum 9 credits **Examples:** ART 1020 Art Appreciation MUSC 1070 Music Theory 1 ENGL 2043 Literature and Film MUSC 1045 Popular Music in American Society	 H, G F H H, D	 3 3 3 3	 ENCM 1400 Introduction to Literature and Criticism
Goal 7 - three credits **Example:** COMM 1031 Interpersonal Communication	 D, O	 3	
Goal 8 - three credits **Example:** Art 1020 Art Appreciation	 G, H	 3	
Goal 9 - three credits **Example:** COMM 1021 Fundamentals of Public Speaking	 O	 3	 ENCM 1600 Public Speaking
Goal 10 - three credits **Example:** ANTH 1022 Intro to Physical Anthropology PHIL 2032 Environmental Ethics	 N2 H	 3 3	 ANTH 1530 Human Evolution PHIL 1140 Ethics
Additional Electives - any course numbered 1000 or above **Example:** MATH 1025 Statistics*	 M, R	 4	 MATH 1200 Statistics
Physical Education/Health - two credits, at least one must be an activity course in PE		2	
Student Success STSC 1021 College Success Strategies, **OR** STSC 1050 Essential Study Skills for College Success		 2 2	Please note that while these courses are required by Century College, they may not be granted credit when transferred to Hamline
Total pathway credits		60	

*Recommended for transfer to Hamline, for additional course options, contact admission@hamline.edu

Remaining major courses for Applied Mathematics B.S. degree	Credits
BIOL 1700 Inclusive STEM (Hamline Plan D)	4
CDS 1010 Introduction to Programming (Hamline Plan C)	4
MATH 1200 Statistics (if not met by MnTC; Hamline Plan M & R)	0-4
MATH 3330 Linear Algebra (if not met by MnTC)	0-4
MATH 3440 Discrete Mathematics (Hamline Plan W)	4
MATH 3720 Differential Equations (if not met by MnTC)	0-4
MATH 5950 Topics in Advanced Mathematics	4
Choose one: CDS 3200 Elements of Statistical Learning MATH 3410 Mathematical Modeling PHYS 3600 Mathematical and Computational Methods in Physics and Engineering w/lab	4
Choose two electives from extensive list	8
MATH 5920 Seminar in Mathematics/Computational Data Science (three terms at 1 credit each)	3
MATH 5930 Mathematics/Computational Data Science Seminar Presentation (Hamline Plan Q)	1
Total credits required for the major	32-44

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 O - Speaking Intensive (1 course if not met by remaining major courses)	0–4
- Hamline Plan F - Fine Arts (8 credits total if not met by MnTC)	0–8
- Hamline Plan H - Humanities (2 courses if not met by MnTC)	0–8
- Hamline Plan P - LEAP (consult with department for possible major courses)	2 or 4
Electives credits to reach minimum 128	varies
Total credits completed at university	68
Total credits for B.S. degree	128

Advising Notes:

- Consult with Hamline Transfer Admissions when choosing courses for goal areas 5-10 to maximize meeting Hamline's graduation requirements.

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

Graduation Requirements: The Hamline Plan http://bulletin.hamline.edu/content.php?catoid=32&navoid=1551