Mathematics Transfer Pathway

Saint Paul College

This document is designed for Saint Paul 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.

Saint Paul College Course	Hamline Plan	Credits	Hamline University Course (current status)	
Required Pathway Courses:				
MATH 2749 Calculus 1	M, R	4	MATH 1170 Calculus I	
MATH 2750 Calculus 2	M, R	4	MATH 1180 Calculus II	
MATH 2753 Multivariable Calculus	M, R	4	MATH 3320 Multivariable and Vector Calculus	
MATH 2760 Differential Equations and Linear Algebra	M, R	4	MATH 3330 Linear Algebra	
·			OR	
			MATH 3720 Differential Equations	
Choose one MATH elective				
Examples:				
MATH 2460 Discrete Mathematics*		4	MATH 3440 Discrete Mathematics	
MATH 1740 Introduction to Statistics	M, R	4	MATH 1200 Statistics	
Goal 1 - 9 credits to include:				
ENGL 1711 Composition 1		4	FYW 1110 Critical Reading and Composition	
AND				
ENGL 1712 Composition 2*	E	2	FYW 1120 Composition and Research	
AND				
One COMM 17XX course				
Examples:				
COMM 1710 Fundamentals of Public Speaking	O, G	3	ENCM 1600 Public Speaking	
COMM 1720 Interpersonal Communication	O, D	3	ENCM 3410 Studies in Professional	
			Communication	
Goal 2 – fulfilled by completing the MnTC				
Goal 3 – 7 credits, two courses (one with lab) from				
two different disciplines				
Examples:				
BIOL 1740 General Biology 1: The Living Cell	N1	5	BIOL 1510 Integrated Concepts in Biology I	
BIOL 1760 Nutrition	N2	3	PBHL 3500 Nutrition for Health, Fitness, and Wellbeing	
CHEM 1711 Principles of Chemistry 1	N1	4	CHEM 1130 General Chemistry I	
Goal 4 – fulfilled by completing this pathway				
Goal 5 – 9 credits, three courses from at least two				
different disciplines				
Examples:				
SOCI 1710 Introduction to Sociology	S, D	4	SJSC 1110 Society and Social Change	
POLS 1720 Introduction to American Government	S	3	PSCI 1110 American Government and Politics	
PSYC 1710 General Psychology	S	4	PSY 1330 General Psychology	
COMM 1740 Mass Media and Communications	S	3	ENCM 1300 Introduction to Media Studies	

Goal 6 - 9 credits, three courses from at least two				
different disciplines				
Examples:				
ARTS 1720 Art Appreciation	H, G	3		
PHIL 1720 Ethics	Н	3	PHIL 1140 Ethics	
MUSC 1770 Music in World Cultures	H, G	3		
MUSC 1720 Fundamentals of Music	F	3		
Goal 7 – one course				
Example:				
ENGL 1790 Contemporary Writers of Color	D, H	3	ENCM 3100 Studies in and Across Culture	
Goal 8 – one course				
Example:				
COMM 1710 Fundamentals of Public Speaking	G, O	3	ENCM 1600 Public Speaking	
Goal 9 – one course				
Example:				
COMM 1750 Small Group Communication	0	3	ENCM 3410 Studies in Professional	
			Communication	
Goal 10 - one course				
Examples:				
ANTH 1720 Introduction to Physical Anthropology	S	4		
PHIL 1724 Environmental Ethics	Н	3		
Additional Electives - any course numbered 1000				
or above				
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	
BIOL 1700 Inclusive STEM (Hamline Plan D)	
CDS 1010 Introduction to Programming (Hamline Plan C)	4
MATH 1200 Statistics (if not met by MnTC; Hamline Plan M, R)	
MATH 3330 Linear Algebra (if not met by MnTC)	0–4
MATH 3440 Discrete Mathematics (if not met by MnTC)	0–4
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	4
PHYS 3600 Mathematical and Computational Methods in Physics and Engineering w/lab	
Choose two electives from extensive list	8
MATH 5920 Seminar in Mathematics/Computational Data Science (three terms at 1 credit each)	
MATH 5930 Mathematics/Computational Data Science Seminar Presentation	
Total credits required for the major	28-40

ing 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 (1-2 courses if not met by remaining major courses)	0–8
- 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 (1 course; 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