Mathematics Transfer Pathway   Minneapolis College

This document is designed for Minneapolis 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.

Minneapolis College Course	Hamline Plan	Credits	Hamline University Course (current status)
Required pathway courses:			
MATH 1180 Calculus 1	M, R	5	MATH 1170 Calculus I
MATH 1190 Calculus 2	M, R	5	MATH 1180 Calculus II
MATH 2210 Linear Algebra and Differential Equations		5	MATH 3330 Linear Algebra OR MATH 3720 Differential Equations
MATH 2220 Multivariable Calculus	M, R	5	MATH 3320 Multivariable and Vector Calculus
Goal 1 - minimum of 9 credits ENGL 1110 College Composition **OR**		3	FYW 1110 Critical Reading & Composition
ENGA 1110 College Composition		3	FYW 1110 Critical Reading & Composition
AND ENGL 1111 Research and Composition for Change*	E	3	FYW 1120 Composition and Research
AND - one eligible CMST course **Example:**			
CMST 1005 Public Speaking*	O	3	ENCM 1600 Public Speaking
Goal 2 - fulfilled through completion of MnTC			
Goal 3 - two courses in different disciplines (one must have a traditional lab, and the other a traditional lab or lab-like experience) **Examples:**			
PHYS 1211 Physics for Science and Engineering 1	N1	5	PHYS 1230 General Physics I
CHEM 1151 Principles of Chemistry I	N1	5	CHEM 1130 General Chemistry I
Goal 4 - fulfilled through completion of pathway			
Goal 5 - two courses from different disciplines **Examples:**			
SOCI 1105 Introduction to Sociology	S, D	3	SJSC 1110 Society and Social Change
PSCI 1101 American Government and Politics	S	3	PSCI 1110 American Government and Politics
PSYC 1110 General Psychology	S	4	PSY 1330 General Psychology
Goal 6 - two courses from different disciplines **Examples:**			
ARTS 1121 Foundation Drawing 1	F	3	
PHIL 1171 Ethics	H	3	
MUSC 1175 Music Theory and Ear Training 1	F	4	MUS 3410 Materials of Music I
AMIS 1100 Native American Literature	H, D	3	
Goal 7 - one course **Example:**			
SOCI 1105 Introduction to Sociology	D, S	3	SJSC 1110 Society and Social Change
Goal 8 - one course **Example:**			
GLOS 1300 Race and Culture: A Global Perspective	G, H	3	

Goal 9 - one course Example: PSCI 1101 American Government and Politics	S	3	PSCI 1110 American Government and Politics
Goal 10 - one course Examples: ANTH 1110 Introduction to Archaeology GEOG 1102 The Physical Environment	S S	3 3	
Additional Electives - any course numbered 1000 or above Example: MATH 1150 Statistical Analysis*	M, R	4	MATH 1200 Statistics
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 3330 Linear Algebra	0–4
MATH 1200 Statistics (if not met by MnTC; Hamline Plan M, R)	0–4
MATH 3440 Discrete Mathematics	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	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 (1-2 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 (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