

Mathematics

AWARD

MATHEMATICS TRANSFER PATHWAY A.A.DEGREE . . .60 cr

MATHEMATICS TRANSFER PATHWAY DEGREE A.A.

(60 CREDITS)

Mathematics Curriculum 18-21 cr
Health and Physical Education 2 cr
Additional General Education. 35 cr
General Electives. 2-5 cr

CAMPUS CONTACT FOR THIS PROGRAM

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PURPOSE

The Mathematics Transfer Pathway A.A. offers students a powerful option: the opportunity to complete an Associate of Arts degree whose course credits will directly transfer to designated mathematics bachelor's degree programs at Minnesota State universities. The entire curriculum has been carefully designed to guarantee junior-year status to students who have been admitted to one of the seven Minnesota State universities. There, students can complete their bachelor's degree by earning 60 additional credits.

The Mathematics Pathway consists of the Required Pathway Curriculum, the Minnesota Transfer Curriculum (MnTC), the Health and Physical Fitness Requirement, and any electives to bring your credit total to 60 credits.

**Universities within the Minnesota State system include Bemidji State University; Metropolitan State University; Minnesota State University, Mankato; Minnesota State University, Moorhead; Southwest Minnesota State University; St. Cloud State University; and Winona State University.*

TRANSFER PATHWAYS

With this transfer pathway, you will be able to transfer to the following universities:

At Bemidji State University

TBD

At Metropolitan State University

Industrial & Applied Mathematics – BS

At Minnesota State University, Mankato:

Mathematics – BS

At Minnesota State University, Moorhead:

TBD

At Southwest Minnesota State University:

Mathematics – BA

At St. Cloud State University:

Mathematics – BA

At Winona State University:

Mathematics – BA

MATHEMATICS TRANSFER PATHWAY REQUIREMENTS 15 CREDITS

The courses below must be completed successfully according to the university's grade standards AND address the required outcomes in the transfer pathway for mathematics.

- MATH 1133 Calculus I5
- MATH 1134 Calculus II5
- MATH 2219 Multivariable Calculus.5

MATHEMATICS ELECTIVES 3-6 CREDITS

Students may select from Math 2221 or Math 2222, or may elect to take both courses. Students should consult with the requirements of their transfer institution when making this decision.

- MATH 2221 Linear Algebra.3
- MATH 2222 Introduction to Differential Equations3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS 35 CREDITS

- Goal 1 Communication3 courses
 - ENG 1108 Writing & Research Skills
 - ENG 1111 or 1114 or 1130
 - COMM 1100, 1110 or 2230
- Goal 2 Critical Thinking.0-1 course
 - Goal 2 course
- Goal 3 Natural Science2 courses

1 course must include lab

 - Goal 3a Life Science course
 - Goal 3b Physical Sciences course
- Goal 4 Mathematical/Logical Reasoning1 course
 - Goal 4 course - Satisfied by MATH 1133
- Goal 5 History/Social Sciences/Behavioral Sciences3 courses

(Include courses from at least 2 disciplines)

 - Goal 5 course
 - Goal 5 course
 - Goal 5 course
- Goal 6 Humanities/Fine Arts/Literature3 courses
 - Goal 6a (Fine Arts) any course
 - Goal 6b (Humanities/Literature) any course
 - Any additional Goal 6 course
- Goal 7 Human Diversity.1 course

(May be satisfied by utilizing course from Goals 1-6, above)

 - Goal 7 course
- Goal 8 Global Perspective1 course

(May be satisfied by utilizing course from Goals 1-6, above)

 - Goal 8 course
- Goal 9 Ethical and Civic Responsibility.1 course

(May be satisfied by utilizing course from Goals 1-6, above)

 - Goal 9 course
- Goal 10 People and the Environment1 course

(May be satisfied by utilizing course from Goals 1-6, above)

 - Goal 10 course

HEALTH/PHYSICAL EDUCATION 2 CREDITS

- Health1
- Physical Education.1

For a list of the requirements and courses that you can choose from, go to: www.inverhills.edu/MnTC

GENERAL ELECTIVES 2-5 CREDITS

Any course numbered 1000 level or higher from any discipline. This may include additional courses from the MnTC and/or health & physical education.

**RECOMMENDED COURSE OF STUDY FOR
MATHEMATICS TRANSFER PATHWAY A.A. DEGREE**

Here is the recommended course of full-time study for the Mathematics Transfer Pathway A.A. degree. Note that not all courses will be available every semester. In many instances, you will be able to choose a specific course from a MnTC Goal Area. For a complete list of MnTC Goal Area course choices, please visit: www.inverhills.edu/MnTC

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 1 15 CREDITS

MATH 1133 Calculus I* (MnTC Goal 4)	5
ENG 1108 Writing & Research Skills (MnTC Goal 1,2)	4
MnTC Goal 6a ¹	3
MnTC Goal 5 ¹	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 2 15 CREDITS

MATH 1134 Calculus II*	5
COMM 1100, 1110 or 2230 (MnTC Goal 1)	3
MnTC Goal 3a1 with lab	4
MnTC Goal 5 ¹	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 3 15 CREDITS

MATH 2219 Multivariable Calculus*	5
ENG 1114 The Research Paper OR ENG 1130 Writing and Research for the Professions (MnTC Goal 1)	3
MnTC Goal 3b	4
MnTC Goal 5 ¹	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 4 15 CREDITS

MATH 2221 Linear Algebra AND/OR MATH 2222 Intro to Differential Equations*	3-6
HLTH 1155 Lifetime Fitness & Wellness (Health & PE)	2
MnTC Goal 6b ¹	3
MnTC Goal 6a or 6b ¹	3
Elective	1-4

TOTAL CREDITS60

* Course required for major

¹ You are encouraged to take a course that also meets MnTC Goal Areas 7, 8, 9, or 10 to streamline your course choices.

**RECOMMENDED PART-TIME COURSE OF STUDY FOR
MATHEMATICS TRANSFER PATHWAY A.A. DEGREE**

Here is the recommended course of part-time study for the Mathematics Transfer Pathway A.A. degree. Note that not all courses will be available every semester. In many instances, you will be able to choose a specific course from a MnTC Goal Area. For a complete list of MnTC Goal Area course choices, please visit: www.inverhills.edu/MnTC

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 1 9 CREDITS

MATH 1133 Calculus I* (MnTC Goal 4)	5
ENG 1108 Writing&Research Skills (MnTC Goal 1,2)	4

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 2 8 CREDITS

MATH 1133 Calculus I* (MnTC Goal 4)	5
COMM 1100, 1110 or 2230 (MnTC Goal 1)	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 3 8 CREDITS

MATH 2219 Multivariable Calculus*	5
MnTC Goal 6a ¹	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 4 9 CREDITS

MATH 2221 Linear Algebra AND/OR MATH 2222 Intro to Differential Equations*	3-6
HLTH 1155 Lifetime Fitness & Wellness (Health & PE)	2
Elective	1-4

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 5 7 CREDITS

MnTC Goal 5 ¹	3
MnTC Goal 3a ¹ with lab	4

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 6 6 CREDITS

ENG 1114 The Research Paper OR ENG 1130 Writing and Research for the Professions (MnTC Goal 1)	3
MnTC Goal 5 ¹	3

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 7 7 CREDITS

MnTC Goal 6b ¹	3
MnTC Goal 3b	4

MATHEMATICS AA-TRANSFER PATHWAY SEMESTER 8 6 CREDITS

MnTC Goal 6a OR b ¹	3
MnTC Goal 5 ¹	4

TOTAL CREDITS60

* Course required for major

¹ You are encouraged to take a course that also meets MnTC Goal Areas 7, 8, 9, or 10 to streamline your course choices.

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