

Mathematics Transfer Pathway AA 2021-2022

60 Credits

The Mathematics Transfer Pathway AA degree offers students an opportunity to complete an associate degree that fully transfers to a Mathematics bachelor's degree program at any one of seven universities within the Minnesota State system* that offers the major. The entire curriculum has been carefully designed to meet designated bachelor's degree program requirements for transfer students planning initial study at one of the 30 community and technical colleges of Minnesota State that offers the pathway. Students planning to transfer outside of the Minnesota State system are advised to consult with their intended transfer institution to determine transferability of the courses in this curriculum.

* The Minnesota State universities are Bemidji State University; Metropolitan State University; Minnesota State University, Mankato; Minnesota State University Moorhead; St. Cloud State University; Southwest Minnesota State University; and Winona State University.

GENERAL REQUIREMENTS:

1. A minimum of 60 semester credits in courses numbered 1000 or above.
2. A minimum grade point average (GPA) of 2.0 at SCTCC in courses numbered 1000 or above. Students who have transferred to SCTCC must have a minimum GPA of 2.0 in SCTCC courses and accepted transfer courses for the MnTC.
3. A minimum of 20 semester credits applied toward the degree must be taken from SCTCC.
4. Completion of specific degree requirements below.

<p>Mathematics Transfer Pathway Requirements</p> <p>Students must complete the MnTC, the AA wellness requirement and the Mathematics Pathway course requirements listed below.</p> <p>Completion of the Minnesota Transfer Curriculum (MnTC) These two criteria must be met to complete the MnTC:</p> <ul style="list-style-type: none"> • All ten goal areas listed in this planner must be completed. One course may satisfy more than one goal area, but the course credits may be counted only once. • At least 40 semester credits from courses listed in the MnTC must be satisfactorily completed (2.0 GPA) <p>Note: The transfer pathway may require specific courses in some goal areas. Students recommended to consult with an advisor about courses that count in multiple goal areas to avoid exceeding the required 60 credits.</p> <p>Mathematics Transfer Pathway Courses</p> <p>Required:</p> <p>MATH 2311 Calculus I..... 5 Credits MATH 2321 Calculus II..... 5 Credits MATH 2330 Calculus III; Multivariable Calculus... 5 Credits MATH 2350 Differential Equations with Linear Algebra 4 Credits</p>	<p>AA Wellness Requirement Choose from below, minimum of 2 credits needed:</p> <p>HPER 1310 Life Wellness.....2 Credits HPER 1311 Applied Nutrition.....2 Credits HPER 1360 Weight Training and Conditioning...1 Credit BLGY 1325³ Nutrition.....3 Credits PSYC 1350⁵ Positive Psychology.....3 Credits</p> <p>A minimum of 60 college level credits with a 2.0 GPA is required to complete the Mathematics Transfer Pathway AA degree.</p> <p><i>NOTE: The requirements of this program are subject to change without notice. Students should refer to the current St. Cloud Technical & Community College catalog to determine the limits to earn a degree.</i></p>
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MATHEMATICS TRANSFER PATHWAY AA PLANNER 2021-2022

To complete the Mathematics Transfer Pathway at St. Cloud Technical & Community College (SCTCC), all 10 Minnesota Transfer Curriculum (MnTC) goal areas must be completed using the planner below. Please note that in some areas, specific courses are required. In some areas, there are preferred options as well. At least 60 semester credits must be earned. Students must earn a minimum 2.0 GPA in this program. Transfer grades of A-D will be included in the GPA calculation.

Courses designated with a superscript (e.g., **BLGY 1351¹⁰**) satisfy more than one goal area, although credits are counted only once toward the 60-credit minimum requirement. The superscript number denotes the other corresponding goal area.

MnTC Goal Area	Communications	Cr	Written (choose at least one):	Personal Tracking Form	
Goal Area 1	<i>Requires: Two courses, Seven credits</i>	4	ENGL 1302 Analytical Writing** OR	<input type="checkbox"/> F S Su _____ Grade ____	
		6	ENGL 1308 and 1309 Stretch Analytical Writing I and II	<input type="checkbox"/> F S Su _____ Grade ____	
		Oral (choose at least one):			
		3	CMST 1320 Introduction to Communication Studies**	<input type="checkbox"/> F S Su _____ Grade ____	
		3	CMST 2300 Introduction to Public Speaking	<input type="checkbox"/> F S Su _____ Grade ____	
		3	CMST 2302⁹ Small Group Communication	<input type="checkbox"/> F S Su _____ Grade ____	
		3	CMST 2310 Interpersonal Communication**	<input type="checkbox"/> F S Su _____ Grade ____	
		3	CMST 2315⁹ Persuasion and the Media	<input type="checkbox"/> F S Su _____ Grade ____	
		Goal 1 Electives (no courses required from this category):			
		3	ENGL 1303 Technical Writing**	<input type="checkbox"/> F S Su _____ Grade ____	
		3	ENGL 2310⁶ Introduction to Creative Writing	<input type="checkbox"/> F S Su _____ Grade ____	
Goal Area 2	Critical Thinking <i>Requires: One course, Three credits</i>	3	CRTK 1300 Critical Thinking (REQUIRED) **	<input type="checkbox"/> F S Su _____ Grade ____	
		Goal 2 Electives (no courses required from this category):			
		3	PHIL 1340⁴ Introduction to Logic**	<input type="checkbox"/> F S Su _____ Grade ____	
		3	WMST 1300⁷ Introduction to Women's Studies	<input type="checkbox"/> F S Su _____ Grade ____	
Goal Area 3	Natural Sciences <i>Requires: Seven credits, Two courses required from two different subjects</i> <i>One course must include a lab</i> <i>Nine credits from a single subject including one lab credit.</i>	3	ASTR 1300 Astronomy**	<input type="checkbox"/> F S Su _____ Grade ____	
		1	ASTR 1301 Astronomy Lab (lab course)**	<input type="checkbox"/> F S Su _____ Grade ____	
		4	ASTR 1305 Introduction to Astronomy (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 1321 Human Biology	<input type="checkbox"/> F S Su _____ Grade ____	
		3	BLGY 1325 Nutrition**	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 1351¹⁰ General Biology I (lab course) **	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 1355 General Biology II (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2310 Human A & P I (lab course) **	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2320 Human A & P II (lab course) **	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2330 Microbiology (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2340 Genetics (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2350 Cellular Biology (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	BLGY 2360 Ecology (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	CHEM 1305¹⁰ Chemistry for the Non-Scientist (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	CHEM 1345 General, Organic, and Biology Chem. Foundations (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	CHEM 1350 General Chemistry I (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	CHEM 1355 General Chemistry II (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	EASC 1310 Meteorology (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	ENVR 1305¹⁰ Environmental Science (lab course) **	<input type="checkbox"/> F S Su _____ Grade ____	
		3	ENVR 1310¹⁰ Environmental Issues	<input type="checkbox"/> F S Su _____ Grade ____	
		3	ENVR 1315¹⁰ Natural Resource Conservation**	<input type="checkbox"/> F S Su _____ Grade ____	
		4	ENVR 2350¹⁰ Environmental Chemistry (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	GEOL1300 Geology (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	PHYS 1305 Conceptual Physics (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	PHYS 2300 General Physics (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		4	PHYS 2305 General Physics (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
		5	PHYS 2310 Engineering Physics I (lab course)	<input type="checkbox"/> F S Su _____ Grade ____	
5	PHYS 2320 Engineering Physics II (lab course)	<input type="checkbox"/> F S Su _____ Grade ____			
Goal Area 4 <i>Continued on page 3</i>	Mathematical/ Logical Reasoning	3	MATH 1300 College Algebra**	<input type="checkbox"/> F S Su _____ Grade ____	
		3	MATH 1321 College Trigonometry	<input type="checkbox"/> F S Su _____ Grade ____	
		3	MATH 1331 Applications of Mathematical Reasoning	<input type="checkbox"/> F S Su _____ Grade ____	
		4	MATH 1341 Elements of Math I	<input type="checkbox"/> F S Su _____ Grade ____	
		4	MATH 1345 Elements of Math II	<input type="checkbox"/> F S Su _____ Grade ____	

MnTC Goal Area 4 <i>Continued</i>	Required: <i>19 Credits in Mathematics Required including:</i> MATH 2311 MATH 2321 MATH 2330 MATH 2350	4 MATH 1351 Introductory Statistics** <input type="checkbox"/> F S Su _____ Grade _____ 5 MATH 1380 Pre-calculus** <input type="checkbox"/> F S Su _____ Grade _____ 5 MATH 2311 Calculus I** (REQUIRED) <input type="checkbox"/> F S Su _____ Grade _____ 5 MATH 2321 Calculus II** (REQUIRED) <input type="checkbox"/> F S Su _____ Grade _____ 5 MATH 2330 Calculus III**; Multivariable Calculus (REQUIRED) <input type="checkbox"/> F S Su _____ Grade _____ 4 MATH 2340 Differential Equations** <input type="checkbox"/> F S Su _____ Grade _____ 4 MATH 2350 Differential Equations with Linear Algebra** (REQUIRED) <input type="checkbox"/> F S Su _____ Grade _____ 3 PHIL 1340² Introduction to Logic** <input type="checkbox"/> F S Su _____ Grade _____
MnTC Goal Area 5	History and the Social and Behavioral Sciences <i>Requires:</i> <i>Nine credits, Three courses required from three different subjects</i>	3 ANTH 1300⁸ Introduction to Cultural Anthropology <input type="checkbox"/> F S Su _____ Grade _____ 3 DVRS 1304⁷ Diversity & Social Justice** (REQUIRED) <input type="checkbox"/> F S Su _____ Grade _____ 3 ECON 2320 Introduction to Macroeconomics <input type="checkbox"/> F S Su _____ Grade _____ 3 ECON 2330 Introduction to Microeconomics ** <input type="checkbox"/> F S Su _____ Grade _____ 3 GEOG 1300⁸ World Regional Geography <input type="checkbox"/> F S Su _____ Grade _____ 3 GERO 1300⁷ Introduction to Gerontology <input type="checkbox"/> F S Su _____ Grade _____ 3 HIST 1310⁹ American History until 1877** <input type="checkbox"/> F S Su _____ Grade _____ 3 HIST 1311⁹ US Since 1877** <input type="checkbox"/> F S Su _____ Grade _____ 3 HIST 1320⁸ World History to 1500 <input type="checkbox"/> F S Su _____ Grade _____ 3 HIST 1321⁸ World History since 1500 <input type="checkbox"/> F S Su _____ Grade _____ 3 HIST 1330⁸ World War II <input type="checkbox"/> F S Su _____ Grade _____ 3 POLS 1304⁹ Introduction to American Politics <input type="checkbox"/> F S Su _____ Grade _____ 3 POLS 1320⁹ Public Issues <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 1300 Introduction to Psychology** <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 1304 Life Span Developmental Psychology** <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 1310⁷ Psychology of Women and Gender** <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 1320 Psychology of Trauma <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 1350 Positive Psychology <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 2310 Abnormal Psychology <input type="checkbox"/> F S Su _____ Grade _____ 3 PSYC 2320 Social Psychology <input type="checkbox"/> F S Su _____ Grade _____ 4 PSYC 2330 Statistics for Psychology/Behavior Sciences <input type="checkbox"/> F S Su _____ Grade _____ 3 PYSC 2350 Topics in Human Sexuality <input type="checkbox"/> F S Su _____ Grade _____ 3 SOCI 1310 Introduction to Sociology** <input type="checkbox"/> F S Su _____ Grade _____ 3 SOCI 1320 Social Problems <input type="checkbox"/> F S Su _____ Grade _____ 3 SOCI 1350⁷ Sociology of Marriage & Family** <input type="checkbox"/> F S Su _____ Grade _____ 3 SOCI 1360⁹ Politics of Food <input type="checkbox"/> F S Su _____ Grade _____ 3 SOCI 2305¹⁰ Environmental Sociology <input type="checkbox"/> F S Su _____ Grade _____ 3 SSCI 1300 Introduction to the Social Sciences <input type="checkbox"/> F S Su _____ Grade _____
MnTC Goal Area 6 <i>Continued on page 4</i>	Humanities and Fine Arts <i>Requires:</i> <i>Nine credits, Three courses required from three different subjects</i>	3 ART 1300 Art Appreciation** <input type="checkbox"/> F S Su _____ Grade _____ 3 ART 1301 Introduction to Studio Art <input type="checkbox"/> F S Su _____ Grade _____ 4 ART 1310 2D Design <input type="checkbox"/> F S Su _____ Grade _____ 4 ART 1321 Drawing I <input type="checkbox"/> F S Su _____ Grade _____ 4 ART 1330 Painting I <input type="checkbox"/> F S Su _____ Grade _____ 4 ART 1340 Digital Photography <input type="checkbox"/> F S Su _____ Grade _____ 4 ART 1380 Sculpture <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1321⁸ Introduction to Modern Fiction** <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1322 Introduction to Literature <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1340⁷ Introduction to Multicultural Literature** <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1341⁷ Introduction to Women's Literature <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1342⁸ Middle Eastern Literature <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 1345⁷ Gender in Literature** <input type="checkbox"/> F S Su _____ Grade _____ 3 ENGL 2310¹ Introduction to Creative Writing** <input type="checkbox"/> F S Su _____ Grade _____ 3 HUMN 1320⁹ Holocaust & Genocide Studies <input type="checkbox"/> F S Su _____ Grade _____ 3 HUMN 1340⁸ Middle Eastern Cultures** <input type="checkbox"/> F S Su _____ Grade _____ 3 HUMN 2350 Film and American Culture** <input type="checkbox"/> F S Su _____ Grade _____ 1 HUMN 2352 Holocaust Field Studies <input type="checkbox"/> F S Su _____ Grade _____ 3 MUSC 1320⁸ Music in World Culture** <input type="checkbox"/> F S Su _____ Grade _____ 3 MUSC 1340 History of Rock and Roll** <input type="checkbox"/> F S Su _____ Grade _____ 3 MUSC 1350 Experiencing Live Music <input type="checkbox"/> F S Su _____ Grade _____ 3 MUSC 1360 Class Voice <input type="checkbox"/> F S Su _____ Grade _____

MnTC Goal Area 6 <i>Continued</i>	Humanities and Fine Arts <i>Speak with Academic Advisor about TH courses offered at St. Cloud State University</i>	3 PHIL 1310 Introduction to Philosophy <input type="checkbox"/> F S Su ___ Grade ___
		3 PHIL 1320⁹ Ethics** <input type="checkbox"/> F S Su ___ Grade ___
		3 PHIL 1360⁸ Comparative World Religions** <input type="checkbox"/> F S Su ___ Grade ___
		4 SPAN 2320⁸ Intermediate Spanish II <input type="checkbox"/> F S Su ___ Grade ___
		3 THTR 1310 Theatre Appreciation <input type="checkbox"/> F S Su ___ Grade ___
		3 THTR 1315 Acting for Everyone (SCSU TH 148) <input type="checkbox"/> F S Su ___ Grade ___
		3 THTR 1330 Introduction to Theatre (SCSU TH 231) <input type="checkbox"/> F S Su ___ Grade ___
		3 THTR 1345 Active Collaboration (SCSU TH 242) <input type="checkbox"/> F S Su ___ Grade ___
MnTC Goal Area 7	Human Diversity <i>Requires: Two courses, Six credits</i>	3 DVRS 1304⁵ Diversity & Social Justice** (REQUIRED) <input type="checkbox"/> F S Su ___ Grade ___
		Choose one additional course:
		3 DVRS 2301 Race and Ethnic Relations <input type="checkbox"/> F S Su ___ Grade ___
		3 DVRS 1310 Human Relations for a Diverse Workplace <input type="checkbox"/> F S Su ___ Grade ___
		3 ENGL 1340⁶ Introduction to Multicultural Literature** <input type="checkbox"/> F S Su ___ Grade ___
		3 ENGL 1341⁶ Introduction to Women's Literature <input type="checkbox"/> F S Su ___ Grade ___
		3 ENGL 1345⁶ Gender in Literature** <input type="checkbox"/> F S Su ___ Grade ___
		3 GERO 1300⁵ Introduction to Gerontology** <input type="checkbox"/> F S Su ___ Grade ___
		3 HASL 1300 American Sign Language I <input type="checkbox"/> F S Su ___ Grade ___
		3 SOCI 1350⁵ Sociology of Marriage & Family** <input type="checkbox"/> F S Su ___ Grade ___
MnTC Goal Area 8	Global Perspective <i>Requires: One course, Three credits</i>	3 ANTH 1300⁵ Introduction to Cultural Anthropology <input type="checkbox"/> F S Su ___ Grade ___
		3 ENGL 1321⁶ Introduction to Modern Fiction <input type="checkbox"/> F S Su ___ Grade ___
		3 ENGL 1342⁶ Middle Eastern Literature <input type="checkbox"/> F S Su ___ Grade ___
		3 GEOG 1300⁵ World Regional Geography <input type="checkbox"/> F S Su ___ Grade ___
		3 HASL 1408 American Sign Language III <input type="checkbox"/> F S Su ___ Grade ___
		3 HASL 1412 American Sign Language IV <input type="checkbox"/> F S Su ___ Grade ___
		3 HIST 1320⁵ World History to 1500 <input type="checkbox"/> F S Su ___ Grade ___
		3 HIST 1321⁵ World History since 1500 <input type="checkbox"/> F S Su ___ Grade ___
		3 HIST 1330⁵ World War II <input type="checkbox"/> F S Su ___ Grade ___
		3 HUMN 1340⁶ Middle Eastern Cultures <input type="checkbox"/> F S Su ___ Grade ___
		3 MUSC 1320⁶ Music in World Culture** <input type="checkbox"/> F S Su ___ Grade ___
		3 PHIL 1360⁶ Comparative World Religions** <input type="checkbox"/> F S Su ___ Grade ___
		4 SPAN 1310 Beginning Spanish I** <input type="checkbox"/> F S Su ___ Grade ___
		4 SPAN 1320 Beginning Spanish II <input type="checkbox"/> F S Su ___ Grade ___
		4 SPAN 2310 Intermediate Spanish I <input type="checkbox"/> F S Su ___ Grade ___
		4 SPAN 2320⁶ Intermediate Spanish II <input type="checkbox"/> F S Su ___ Grade ___
MnTC Goal Area 9	Ethical & Civic Responsibility <i>Requires: One course, Three credits</i>	3 CMST 2302¹ Small Group Communication <input type="checkbox"/> F S Su ___ Grade ___
		3 CMST 2315¹ Persuasion and the Media <input type="checkbox"/> F S Su ___ Grade ___
		3 ECON 1310 Personal Finance** <input type="checkbox"/> F S Su ___ Grade ___
		3 HIST 1310⁵ American History until 1877** <input type="checkbox"/> F S Su ___ Grade ___
		3 HIST 1311⁵ The United States Since 1877** <input type="checkbox"/> F S Su ___ Grade ___
		3 HUMN 1320⁶ Holocaust & Genocide Studies <input type="checkbox"/> F S Su ___ Grade ___
		3 PHIL 1320⁶ Ethics** <input type="checkbox"/> F S Su ___ Grade ___
		3 POLS 1304⁵ Introduction to American Politics <input type="checkbox"/> F S Su ___ Grade ___
		3 POLS 1320⁵ Public Issues <input type="checkbox"/> F S Su ___ Grade ___
3 SOCI 1360⁵ Politics of Food <input type="checkbox"/> F S Su ___ Grade ___		
MnTC Goal Area 10	People & the Environment <i>Requires: One course, Three credits</i>	4 BLGY 1351³ General Biology I (lab course) ** <input type="checkbox"/> F S Su ___ Grade ___
		4 CHEM 1305³ Chemistry for the Non-Scientist (lab course) <input type="checkbox"/> F S Su ___ Grade ___
		3 ECON1340 Environmental Economics** <input type="checkbox"/> F S Su ___ Grade ___
		4 ENVR 1305³ Environmental Science (lab course) ** <input type="checkbox"/> F S Su ___ Grade ___
		3 ENVR 1310³ Environmental Issues <input type="checkbox"/> F S Su ___ Grade ___
		3 ENVR 1315³ Natural Resource Conservation** <input type="checkbox"/> F S Su ___ Grade ___
		4 ENVR 2350¹⁰ Environmental Chemistry (lab course) <input type="checkbox"/> F S Su ___ Grade ___
3 SOCI 2305⁵ Environmental Sociology <input type="checkbox"/> F S Su ___ Grade ___		