

**MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN**

**ST CLOUD TECHNICAL & COMMUNITY
COLLEGE
AND
MINNESOTA STATE UNIVERSITY MOORHEAD**

*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between **ST CLOUD TECHNICAL & COMMUNITY COLLEGE** (hereinafter sending institution), and **MINNESOTA STATE UNIVERSITY MOORHEAD** (hereinafter receiving institution). This Agreement and any amendments and supplements, shall be interpreted pursuant to the laws of the State of Minnesota.

The sending institution has established a **COMPUTER PROGRAMMING AAS** (hereinafter sending program), and the receiving institution has established a **CYBERSECURITY BS** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

Admission and Graduation Requirements

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.

Transfer of Credits

- A. The receiving institution will accept **60 credits** from the sending program. A total of **69-75 credits** remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Articulation Table. For system institutions, once the courses are encoded, they will transfer as described in the Transferology Audit.

Implementation and Review

- A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. This Articulation Agreement is effective on **08/01/2023** and shall remain in effect until the end date of **08/01/2028** or for five years, whichever occurs first, unless terminated or amended by either party with 90 days prior written notice.
- C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- D. This Articulation Agreement will be reviewed by both parties beginning **02/01/2028** (within six months of the end date).
- E. When a student notifies the receiving institution of their intent to follow this agreement, the receiving institution will encode course waivers and substitutions.

PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	ST CLOUD TECHNICAL & COMMUNITY COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Computer Programming	Cybersecurity
Award Type (e.g., AS)	AAS	BS
Credit Length	60	120
CIP code (6-digit)	11.0201	111003
Describe program admission requirements (if any)		

Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a "substitution" only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv/ Sub/ Wav
Minnesota Transfer Curriculum-General Education						
Oral Communications Course *Recommended CMST 1320 Intro to Communication Studies	1	3	Goal Area 1A course COMM 100 Speech Communication	1	3	Equiv
Written Communications Course *Recommended ENGL 1302 Analytical Writing	1	4	Goal Area 1B course ENGL 101 English Composition	1	4	Equiv
MATH 1360 College Algebra	4	3	MATH 127 College Algebra	4	3	Equiv
MATH 1351 Statistics	4	4	MATH 234 Intro Probability & Statistics	4	4	Equiv
MnTC Goal Area 5, 6, or 9**	5, 6, or 9	3	MnTC Goal Area 5, 6 or 9 course	5, 6, or 9	3	
MnTC/General Education Total		17				

Special Notes, if any: *Recommended because these course fulfill MnTC/ LASC or program requirements. MSUM will accept other MnTC credits and will transfer the same number of credits and goal areas as SCTCC awards. ** Recommended students complete either a goal 5 or goal 6 course, since goal 9 will be completed at MSUM.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

¹ MnTC goal areas transfer to the receiving MnSCU college/university according to the goal areas designated by the sending college/university

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). **Restricted electives (in Major)** fulfill a specific requirement within a major. Example A: "Chose two of the following three courses;" Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
CMSC 1203 Structured Programming Logic	3	CSIS 152 Intro to Computers & Programming 1-A	3	Equiv
CMSC 1236 Java Programming	4	CSIS 153 Intro to Computers & Programming 1-B	4	Equiv
CMSC 2240 C# Programming II	3	CSIS 336 C#.Net Programming	3	Equiv
CMSC 1216 Database Modeling I (3 cr) AND CMSC 2201 Database Modeling II (3 cr)	6	CSIS 304 Databases	6	Equiv
CMSC 1206 Intro to Information Technology Concepts	3	Electives	27	
CMSC 1212 Web Markup Language	3			
CMSC 1217 Introduction to Data Analytics	3			
CMSC 1255 Server-Side Programming	3			
CMSC 2204 Mobile Device Programming Connectivity	3			
CMSC 1228 Client-Side Programming	3			
CMSC 2205 Computer Programming Internship	3			
CMSC 2203 C# Programming I	3			
CMSC 2279 Systems Analysis & Design	3			
Major, Emphasis, Unrestricted Electives Total	43	Total College Credits Applied (sum of sections A and B)	60	

Special Notes:

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	Remaining MnTC/ LASC Goal Requirements*	16-19
	CHEM 150/150L General Chemistry I and Lab OR PHYS 160 College Physics I and Lab OR PHYS 200 General Physics I and Lab (Goal 3L)	4
	MATH 261 Calculus I (3 Cr) OR MATH 229 Topics in Calculus (4 cr) (Goal 4)	3 - 4
	MATH 210 Concepts from Discrete Mathematics (Goal 4)	3
	ENGL 387 Technical Report Writing OR PMGT 385 Process Leadership WI	3
	CSIS 316 Ethics in the Information Age (Goal 9) WI	3
	CSIS 252 Intro to computers & Programming II	3
	CSIS 320 Architecture	4
	CSIS 340 Software Engineering	3
	CSIS 349 Networks & Data Communications	3
	CSIS 349L Networks & Data Communications Lab	1
	CSIS 362 Cybersecurity Fundamentals	3
	CSIS 364 Information Systems Security	3
	CSIS 430 Operating Systems	4
	CSIS 352 Advanced Concepts in Programming	3
	CSIS 441 Network Security	3
	CSIS 462 Software Security	3
	CSIS 464 Software Security Analysis	3
	CSIS 492 Senior Seminar	1
	Restricted Electives (Choice of two classes from list.)	6
	**COMM 100 Speech Communication	(3)
	Total Remaining University Credits²	69-75

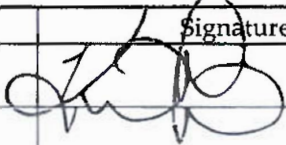
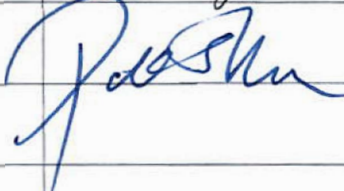
Special Notes, if any: * MnTC goal areas must be met and 40 MnTC/ LASC credits earned. Courses that double counts goal areas may be used to make the most of credits. ** This course is required unless its equivalent was taken at SCTCC. See section A above.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements
MnTC/General Education	17	

Major, Emphasis, Unrestricted Electives or Other	43		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	69-75
		Total Program Credits	129-135

² At least 40 of the required credits for the baccalaureate degree shall be at the upper-division level. If a lower division course is shown as equivalent to an upper division course, check with the university to determine if it will count toward the 40 required credits of upper division.

College	Name	Signature	Date
Chief Academic Officer	Ken Matthews		9/20/23
Title			
University	Name	Signature	Date
Department Chairperson	Ellen Fagerstrom	<i>Ellen Fagerstrom</i>	2023/10/05
Academic Dean	Peter Sherman		10-5-23
Chief Academic Officer	Arrick Jackson		
DARS Encoder	Samantha Howard		
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			