MINNESOTA STATE COLLEGES AND UNIVERSITIES* ARTICULATION AGREEMENT BETWEEN	NORTH DAKOTA STATE COLLEGE OF SCIENCE 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 North Dakota State College of Science (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 **Land Surveying and Civil Engineering Technology A.A.S. Degree** (hereinafter sending program), and the receiving institution has established a **Construction Management B.S. Degree** (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 **42 credits** from the sending program. A total of **82 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 **02/15/2021** and shall remain in effect until the end date of **02/15/2026** 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 **08/15/2026** (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	North Dakota State College of Science	Minnesota State University Moorhead (MSUM)
Program name	Land Surveying and Civil Engineering Technology	Construction Management
Award Type (e.g., AS)	A.A.S. Degree	B.S. Degree
Credit Length	72	120
CIP code (6-digit)	15.130301	52.200100
Describe program admission requirements (if any)	Minimum ACT Scores: Reading – 15 English – 15 Math – 17	2.5 minimum GPA requirement

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						
ENGL 110 – College Composition I	1B	3	ENGL 101 – Composition I	1B	3	Equiv
English/Communication Elective: *Recommended, COMM 110 – Fundamentals of Public Speaking* OR *ENGL 120 College Composition II*	*(1A)* *(6)*	3	COMM 100 – Speech Communication OR ENGL 210 English Comp II	*(1A)* *(6)*	3	Equiv
General Education Electives, exact Goal Area course substitutions shall be determined at the time of transfer* **Recommended: Math 103 College Algebra*	varies *(4)*	4 *(3)*	General Education Electives, exact Goal Area course substitutions shall be determined at the time of transfer *MATH 127 College Algebra*	Varies *(4)*	4 *(3)*	 *Equiv*
MnTC/General Education Total		10				

Special Notes: **Courses is recommended because it helps with goal areas or is a requirement of the major. CSCI courses do not count toward general education/ LASC requirements at MSUM.

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

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

(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				
FYE 101 – Science of Success	1	FYE 101 First Year Experience	1	Equiv
HPER 210 – First Aid and CPR	2	HLTH 125 First Aid and CPR	2	Equiv
CT 121 – Surveying I	4	CM 200 Surveying Lecture & CM 200L Surveying Lab	4	Equiv
CAD 120 – Introduction to AutoCAD	3	CM 216 Construction Graphics	3	Sub
CT 235 – Water Resource Technology	3	CM 254 Mechanical/Electrical Systems (3 cr)	3	Sub
CT 132 – Materials Testing/Quality Control	3	CM 325 Heavy/Highway Const. Materials	3	Sub
CT 214 – Highway & Street Design	3	Technical	16	
CT 111 – Civil Plan and Specifications	2	Technical		
CT 113 – Introduction to Civil Design Applications	3	Technical		
CT 122 – Surveying II	4	Technical		
CT 142 – Construction Safety for Civil Technicians	1	Technical		
CT 211 – Introduction to Geographic Information Systems	3	Technical		
CT 212 – GIS Applications	3	Technical		
CT 215 – Land Use Planning & Development	3	Technical		
CT 221 – Surveying III	4	Technical		
CT 222 – Surveying IV	4	Technical		
CT 223 – Boundary Control and Legal Principles	3	Technical		
CT 224 – Research and Analysis	3	Technical		
CT 261 – Machine Control and Project Layout	2	Technical		
UAS 111 – Introduction to UAS	2	Technical		
MATH 130 – Technical Mathematics	2	Technical		
MATH 132 – Technical Algebra I	2	Technical		
MATH 136 – Technical Trigonometry	2	Technical		
Major, Emphasis, Unrestricted Electives Total	62	**Total College Credits Applied (sum of sections A and B)**	42	

Special Notes, if any: MSUM will accept 16 technical credits toward a baccalaureate degree.

SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
Minimum remaining general education goal areas and credits*	12
Physical Science Elective 1 (Goal Area 3 with lab)	4
Physical Science Elective 2 (Goal Area 3 with or without lab)	3, 4
MATH 142 – Pre-Calculus (Goal Area 4)	5
ECON 202 – Principles of Economics: Microeconomics **OR** ECON 204 – Principles of Economics: Macroeconomics (GA 5)	3
ENGL 201 – Composition II (Goal Area 6) **OR **COMM 100 – Speech Communication (Goal Area 1A)	(3) (3)
CM 205 – Professional Growth Seminar	1
CM 220 – Commercial Building Methods and Materials	3
CM 230 – Estimating I Quantity Survey	3
CM 327 – Sustainability in a Built Environment (Goal Area 10)	3
CM 335 – Estimating II Pricing & Productivity	3
CM 340 – Planning & Scheduling	3
CM 350 – Structural Analysis	3
CM 365 – Construction Safety	3
CM 370 – Construction Docs/Specs	3
CM 425 – Equipment Productivity & Analysis	3
CM 434 – Construction Cost Analysis	3
CM 460 – Project Administration	3
CM 469 – Internship	3

	CM 470 – Construction Law	2
	CM 492 – Capstone Experience	3
	ACCT 230 – Principles of Accounting I	3
	ACCT 280 – Legal Environment of Business	3
	MGMT 260 – Principles of Management	3
	Total Remaining University Credits	79

Special Notes, if any: * MnTC goal areas must be met and 42 MnTC/ LASC credits earned. ** Required, if equivalent courses weren't taken at NDSCS.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	10		
Major, Emphasis, Unrestricted Electives or Other	62		
Total College Credits	72	**Total College Credits Applied**	42
		Remaining credit to be taken at the university (receiving institution)	79
		Total Program Credits	121

Special Notes, if any:
MSUM and major GPA requirement(s):
2.5 minimum GPA to be accepted in CM program
40 upper-division (300, 400-level) semester credits
Transfer student Writing-Intensive requirement:
Must complete 2 Writing Intensive courses from MSUM
Additionally,
Developmental courses do not count toward graduation.

College	Name	Signature	Date
Chief Academic Officer	Harvey Link	Harvey Link	2/23/21
Department Chair	Randy Stach	Randy Stach	2/19/21
University	Name	Signature	Date
Department Chairperson	Rachel Axness	Rachel Axness	4/28/21
Academic Dean	Dr. Josh Behl		4/29/21
Chief Academic Officer	Dr. Arrick Jackson		5/10/21
DARS Encoder	Jolene Richardson	Jolene Richardson	5/20/21
		Date when equivalencies were encoded in DARS by the receiving MnSCU institution.	