

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 an **Architectural Drafting and Estimating 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 **55 credits** from the sending program. A total of **72 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 **02/01/2021** and shall remain in effect until the end date of **02/01/2026** 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 **08/01/2026** (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	Architectural Drafting & Estimating Technology	Construction Management
Award Type (e.g., AS)	A.A.S. Degree	B.S. Degree
Credit Length	70	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) <sup>1</sup>	Credits	course prefix, number and name	Goal(s) <sup>1</sup>	Credits Applied	Equiv Sub Wav
<b>Minnesota Transfer Curriculum-General Education</b>						
ENGL 110 – College Composition I	1B	3	ENGL 101 – Composition I	1B	3	Equiv
English/ Comm Elective <i>*Recommended: COMM 110 – Fundamentals of Public Speaking OR ENGL 120 College Composition II</i>	1 (1A)	3 (3)	COMM100 – Speech Communication	1A	3	Equiv
General Education Electives, exact Goal Area course substitutions shall be determined at the time of transfer <i>*Recommended: Math 103 College Algebra</i>	(6)	(3)	ENGL 210 – English Comp II	6	3	Equiv
	varies	4	General Education Electives	Varies	4	
		(3)	MATH 127 College Algebra	(4)	(3)	Equiv
<b>MnTC/General Education Total</b>		<b>10</b>				

**Special Notes:** \*Course is recommended because it helps with goal areas or is a requirement of the major. CSCI courses don't count for MSUM goal areas.

<sup>1</sup> 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
Wellness Electives	2	Wellness Electives	2	sub
<i>*Recommended Elective:</i> BCT 222 – Construction Safety	2	CM 365 – Construction Safety	2	sub
ARCT 133 & 231 – Residential & Commercial Methods and Materials	5	CM 220 – Commercial Building Methods & Materials	5	equiv
ARCT 144 – Construction Estimating I AND ARCT 241 – Construction Estimating II	6	CM 230 – Estimating I Quantity Survey	6	equiv
ARCT 110 – Graphic Communications AND ARCT 121 – Revit Architecture	5	CM 216 – Construction Graphics	5	sub
ARCT 234 – Structural Steel Detailing I	3	CM 350 – Structural Design & Analysis	3	sub
CMT 225 – Mechanical and Electrical Systems	2	CM 254 – Mechanical/Electrical Systems	2	sub
ARCT 101 – Arch Drafting I	3	Technical	16	
ARCT 102 – Arch Drafting II	5			
ARCT 201 – Arch Drafting III	4			
ARCT 202 – Arch Drafting IV	4			
ARCT 212 – Architectural Presentations	2			
ARCT 214 – Architectural Portfolio	1			
ARCT 223 – Renovation & Design	3			
ARCT 242 – Construction Estimating III	3			
ARCT 120 AutoCAD for Architecture <b>OR</b> CAD 120 – Introduction to AutoCAD	3			
MATH 130 - Technical Mathematics	2			
MATH 132 - Technical Algebra I	2			
MATH 136 - Technical Trigonometry	2			
Unrestricted elective credits (if none enter 0)	0			College's unrestricted elective credits accepted in transfer (if none enter 0)
<b>Major, Emphasis, Unrestricted Electives Total</b>	<b>60</b>	<b>Total College Credits Applied (sum of sections A and B)</b>	<b>55</b>	

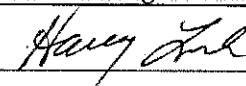
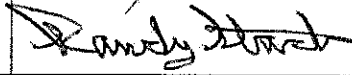
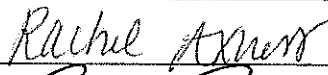

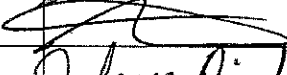

**Special Notes, if any:** \*Course is recommended because it can be used to fulfill a requirement of the major at MSUM. MSUM will accept 16 technical credits toward a baccalaureate degree.

## 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 <b>OR</b> ECON 204 – Principles of Economics: Macroeconomics (GA 5)	3
<b>**ENGL 201 – Composition II (Goal Area 6) <b>OR</b></b>	<b>(3)</b>
<b>**COMM 100 – Speech Communication (Goal Area 1A)</b>	<b>(3)</b>
CM 200 & CM 200L – Surveying Lecture and Lab	2
CM 205 – Professional Growth Seminar	1
CM 327 – Sustainability in a Built Environment (GA 10 & WI)	3
CM 335 – Estimating II Pricing & Productivity	3
CM 340 – Planning & Scheduling	3
CM 370 – Construction Docs/Specs	3
CM 425 – Equipment Productivity & Analysis	3
CM 434 – Construction Cost Analysis	3
CM 445 – Contractor Quality Management	3
CM 460 – Project Administration	3

	CM 469 – Construction 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
	University unrestricted elective credits not counted elsewhere (if none enter 0)	0
	<b>Total Remaining University Credits</b>	<b>72</b>
<b>Special Notes, if any:</b> * MnTC goal areas must be met and 42 MnTC/ LASC credits earned. **Required if equivalent courses wasn't taken at NDSCS.		

<b>SECTION D - Summary of Total Program Credits</b>			
<b>College (sending) Credits</b>		<b>University (receiving) Requirements</b>	
<b>MnTC/General Education</b>	10		
<b>Major, Emphasis, Unrestricted Electives or Other</b>	60		
<b>Total College Credits</b>	<b>70</b>	<b>Total College Credits Applied</b>	<b>55</b>
		<b>Remaining credit to be taken at the university (receiving institution)</b>	<b>72</b>
		<b>Total Program Credits</b>	<b>127</b>
<b>Special Notes, if any:</b> 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.			

<b>College</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>
Chief Academic Officer	Harvey Link		2/8/21
Department Chair	Randy Stach		2/1/21
<b>University</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>
Department Chairperson	Rachel Axness		2/22/21
Academic Dean	Dr. Josh Behl		2/25/21
Chief Academic Officer	Dr. Arrick Jackson		3/1/21
DARS Encoder	Jolene Richardson		3/8/21
Date when equivalencies were encoded in DARS by the receiving MnSCU institution.			