

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

**BISMARCK STATE 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 **BISMARCK STATE 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 the following programs:

Automotive Technology AAS, 47.0604
Automotive Collision Technology AAS, 47.0603
Carpentry (Residential) AAS, 46.0201
Cybersecurity and Computer Networks AAS, 11.0901
Electric Power Technology AAS, 15.0303
Electrical Transmission Systems Technology AAS, 46.0301
Electronics Telecommunications Technology AAS, 47.0103
Energy Services & Renewable Technician AAS, 15.0599
Engineering Technology AAS, 15.0000
GIS Technician AAS, 11.0901
Heating Ventilation & Air Conditioning AAS, 47.0201
Instrumentation & Control Technology AAS, 15.0499
Lineworker (Electrical) AAS, 46.0303
Mechanical Maintenance Technology AAS, 47.0303
Nuclear Power Technology AAS, 41.0205
Petroleum Production Technology AAS, 15.0903
Power Generation Technology AAS, 15.0699
Process Technology AAS, 15.0612
Web Page Development & Design AAS, 11.0801
Welding AAS, 48.0508

and the receiving institution has established an **Operations Management BS Technical Management Emphasis** (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 **57 - 66 credits** from the sending program. A total of **58 - 69 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 uSelect 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 **05/15/2021** and shall remain in effect until the end date of **05/15/2026** 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 **11/15/2025** (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	BISMARCK STATE COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Automotive Technology AAS, 47.0604, 60 cr Automotive Collision Technology AAS, 47.0603, 75 cr Carpentry (Residential) AAS, 46.0201, 60 cr Cybersecurity and Computer Networks AAS, 60 – 64 cr Electric Power Technology AAS, 15.0303, 68 cr Electrical Transmission Systems Technology AAS, 46.0301, 66 cr Electronics Telecommunications Technology AAS, 47.0103, 74 – 75 cr Energy Services & Renewable Technician AAS, 70 cr	Operations Management

	Engineering Technology AAS, 15.0000, 68 – 71 cr GIS Technician AAS, 11.0901, 61 – 62 cr Heating Ventilation & Air Conditioning AAS, 47.0201, 60 cr Instrumentation & Control Technology AAS, 15.0499, 74 cr Lineworker (Electrical) AAS, 60 cr Mechanical Maintenance Technology AAS, 47.0303, 66 cr Nuclear Power Technology AAS, 41.0205, 72 cr Petroleum Production Technology AAS, 68 cr Power Generation Technology AAS, 15.0699, 67 cr Process Technology AAS, 15.0612, 68 cr Web Page Development & Design AAS, 60 cr Welding AAS, 48.0508, 64 cr	
Award Type (e.g., AS)	AAS	BS
Credit Length	(See Above)	120
CIP code (6-digit)	(See Above)	52.020500
Describe program admission requirements (if any)		AAS with 30+ prescribed technical credits, as prescribed by program's accrediting board, The Association of Technology, Management, and Applied Engineering (ATMAE)
Instructions		
<ul style="list-style-type: none"> • 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. <p style="text-align: center;">(To add rows, place cursor outside of the end of a row and press enter.)</p>		
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						
Automotive Technology AAS, 12- 15 cr						
Automotive Collision Technology AAS, 12- 15 cr						
Carpentry (Residential) AAS, 15 cr						
Cybersecurity and Computer Networks AAS, 12 cr						
Electric Power Technology AAS, 12- 15 cr						
Electrical Transmission Systems Technology AAS, 15 cr						
Electronics Telecommunications Technology AAS, 12 cr						
Energy Services & Renewable Technician AAS, 12 cr						
Engineering Technology AAS, 15 - 18 cr						
GIS Technician AAS, 25 - 26 cr						
Heating Ventilation & Air Conditioning AAS, 15 cr						
Instrumentation & Control Technology AAS, 12 cr			MNTC General Education courses	1 - 10	9 - 26	
Lineworker (Electrical) AAS, 15 cr						
Mechanical Maintenance Technology AAS, 15 cr						
Nuclear Power Technology Instrument & Control Track AAS, 15 cr						
Nuclear Power Technology Non-License Oper Track AAS, 15 cr						
Petroleum Production Technology AAS, 15 cr						
Power Generation Technology AAS, 15 cr						
Process Technology AAS, 15 cr						
Web Page Development & Design AAS, 9 cr						
Welding AAS, 15 cr						
MnTC/General Education Total		9 - 26				

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

Special Notes: MSUM will accept other general education credits as they align with the LASC goal areas and will transfer the same number of credits as BSC awards. Students should work with their advisor at BSC and MSUM to choose the best general education courses to take. NOTE: BADM, BUSN, GIS, or CSCI courses do not transfer as general education/LASC courses. CIS 164 is considered technical credit.

ECON 201 Principles of Microeconomics (3 cr) is equivalent to MSUM ECON 202 , Principles of Economics I: Micro, Goal Area 5.
 COMM 110 Fundamentals of Public Speaking (3 cr) is equivalent to MSUM COMM 100 Speech Communication MnTC Goal Area 1.
 ENGL 110 College Composition I (3 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1.
 ENGL 120 College Composition II (3 cr) transfers as Goal Area 1.
 CHEM 121 & 121L General Chemistry I (5 cr) is equivalent to MSUM CHEM 150/ 150L General Chemistry I, Goal Area 3.
 PHYS 211/ 211L College Physics I/ Lab (4 cr) is equivalent to MSUM PHYS 160/ 160L Goal Area 3.
 MATH 103 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 MATH 210 Elementary Statistics (3 cr) is equivalent to MSUM MATH 234 Intro to Probability & Statistics, Goal Area 4.
 POLS 116 American Government I (3 cr) is equivalent to MSUM POL 120 American National Govern & Politics, Goal Area 5,9.
 PHIL 220 Intro to Logic (3 cr) transfers as goal area 2.
 SOC 110 Intro to Sociology (3 cr) is equivalent to MSUM SOC 110 Intro to Sociology, Goal Area 5.

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).

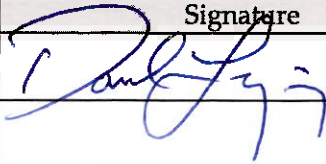
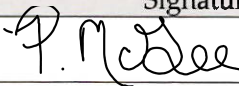


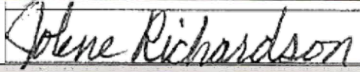
Major, Emphasis, Restricted, Unrestricted Electives or Other Courses			
Technical credits as prescribed in program			
Automotive Technology AAS, 60 cr			
Automotive Collision Technology AAS, 44 - 45 cr			
Carpentry (Residential) AAS, 36 - 45 cr			
Cybersecurity and Computer Networks AAS, 52 cr			
Electric Power Technology AAS, 53 cr			
Electrical Transmission Systems Technology AAS, 51 cr			
Electronics Telecommunications Technology AAS, 62 cr			
Energy Services & Renewable Technician AAS, 58 cr			
Engineering Technology AAS, 50 cr			
GIS Technician AAS, 36 cr			
Heating Ventilation & Air Conditioning AAS, 44 cr			
Instrumentation & Control Technology AAS, 62 cr			
Lineworker (Electrical) AAS, 44 cr			
Mechanical Maintenance Technology AAS, 51 cr			
Nuclear Power Technology Instrumentation & Control Track AAS, 57 cr			
Nuclear Power Technology Non-License Oper Track AAS, 52 cr			
Petroleum Production Technology AAS, 53 cr			
Power Generation Technology AAS, 52 cr			
	Technical Credits as prescribed in the program	30	
	Additional credits up to 18 will be applied as unrestricted elective credits		Up to 18

Process Technology AAS, 53 cr Web Page Development & Design AAS, 42 cr Welding AAS, 49 cr				
BADM 210 Advertising I (3), BUSN 224 Electronic Commerce (3), CSCI 101 Intro to Computers (3)		Not Applicable to technical or MnTC	0	
Major, Emphasis, Unrestricted Electives Total	36 - 60	Total College Credits Applied (sum of sections A and B)	51 - 66	
Special Notes: No more than 48 technical credits will be applied as elective credit. If the program doesn't have that many technical credits, that lower number of credits will be applied. If the program has electives, those credits may be counted as technical if the courses are considered technical.				

SECTION C - Remaining University (receiving) Requirements		
	course prefix, number and name	Credits
	Gen Ed/ LASC goal areas and credits*	9 - 24
	MATH 127 College Algebra (Goal 4) **	3
	MATH 234 Intro to Probability & Statistics (Goal 4)**	3
	ECON 202 Principles of Econ I: Micro (Goal 5)	3
	MGMT 260 Principles of Management	3
	ACCT 230 Principles of Accounting I	3
	OM 380 Methods Improvement	3
	OM 393 Occupational Safety & Health	3
	OM 395 Computer Applications for Technologists	3
	OM 469 Internship	3
	OM 470 Purchasing & Sourcing Management	3
	OM 482 Quality Planning & Implementation	3
	OM 483 Cost Analysis	3
	OM 485 Production & Inventory Management	3
	PMGT 300 Project Management & Scheduling	3
	PMGT 385 Process Leadership	3
	Electives if needed to bring total to 120 credits	0 - 5
	Total Remaining University Credits²	59 - 69
Special Notes: * MnTC/ LASC goal areas must be met and 42 credits earned. Equivalent courses can be taken at BSC. (See Section A Notes.) ** If MATH 103 and 210 were taken as part of the program at BSC, these requirements would be considered fulfilled.		

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	9 - 26		
Major, Emphasis, Unrestricted Electives or Other	36 - 70		
Total College Credits	60 - 75	Total College Credits Applied	59 - 66
		Remaining credit to be taken at the university (receiving institution)	59 - 69
		Total Program Credits	120 - 126
Special Notes, if any:			

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.

Two-Year College	Name	Signature	Date
Chief Academic Officer	Daniel Leingang		25 Jun 21
University	Name	Signature	Date
Department Chairperson	Pam McGee		6.25.2021
Academic Dean	Josh Behl		6/28/2021
Chief Academic Officer	Arrick Jackson		6/28/21
DARS Encoder	Jolene Richardson		6/28/2021
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			