MINNESOTA STATE COLLEGES AND UNIVERSITIES* ARTICULATION AGREEMENT BETWEEN

Minnesota State Community and Technical 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 Minnesota State Community and Technical 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

Automotive Service Technology Diploma 66 credits 47.060402

Diesel Equipment Technology Diploma, 65 credits 47.060501

Drafting and 3D Technologies Diploma, 60 credits 15.130601

Electrical Lineworker Technology Diploma, 36 credits 46.030301

Electrical Technology - Electrician Diploma, 74 credits

Graphic Design Technology Diploma, 60 credits 50.040901

HVAC/R - Heating Ventilation, Air Conditioning & Refrigeration Diploma, 36 credits

Plumbing Technology Diploma, 36 credits

Powersports Technology Diploma, 60 credits

(hereinafter sending programs), and the receiving institution has established an Operations Management 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 33 57 credits from the sending program. A total of 69 87 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 3/15/2019 and shall remain in effect until the end date of 3/15/2024 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 09/15/2023 (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					
	University (receiving)				
Institution	Minnesota State Community and Technical College	Minnesota State University Moorhead			
Program name/ Award	Automotive Service Technology Diploma 66 credits 47.060402				
	Diesel Equipment Technology Diploma, 65 credits 47.060501				
	Drafting and 3D Technologies Diploma, 60 credits 15.130601				
	Electrical Lineworker Technology Diploma, 36 credits 46.030301	One with the Management of DC			
Type (e.g., AS)/ CIP	Electrical Technology – Electrician Diploma, 74 credits	Operations Management, BS, 120 credits, 52.020500			
code (8-digit)	Graphic Design Technology Diploma, 60 credits 50.040901				
	HVAC/R — Heating Ventilation, Air Conditioning & Refrigeration Diploma, 36 credits				
	Plumbing Technology Diploma, 36 credits				
	Powersports Technology Diploma, 60 credits				
Aware Type (e.g., AS)	Diploma	BS			
Credit Length	33-74	120			
CIP code (6-digit)		52.020500			
Describe program admission requirements (if any)		AAS, AS, or Diploma with 30+ prescribed technical credits, as prescribed by program's accrediting board, The Association of Technology, Management, and Applied Engineering (ATMAE)			

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)		MSUM University (receiving)				
Course prefix, number and name (The following courses are requirements of the BS degree, but may not be required of the diploma or associate's programs. Students are encouraged to take these courses within their AS, AAS, or Diploma program.)	Goal(s) 1	Credits	course prefix, number and name	Goal(s)1	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Ed	ucation					
General Education Requirement* Automotive Service Technology Diploma 9 cr						
Diesel Equipment Technology Diploma, 9 cr						
Drafting and 3D Technologies Diploma, 9 cr						
Electrical Lineworker Technology Diploma, 3 cr					i	
Electrical Technology - Electrician Diploma, 6 cr	4.40		MNTC General Education			Equiv
Graphic Design Technology Diploma, 6 cr	1-10	0-9	courses	1-10	0-9	Or Sub
HVAC/R – Heating Ventilation, Air Condit & Refrig Diploma, 0 cr						
Plumbing Technology Diploma, 3 cr		:				
Powersports Technology Diploma, 6 cr						
MnTC/General Educati	on Total	0 - 9				

Special Notes, if any:*Students should work with their advisor at MSCTC and also MSU Moorhead to choose best general education courses to take at MSCTC. MSUM will accept other MnTC credits within the AAS and will transfer the same number of credits and goal areas Minnesota State Community and Technical College awards.

** If students takes equivalencies of these courses at Minnesota State Community and Technical College, fewer MNTC credits will be required in MSU – Moorhead's program:

ENGL 1101 - College Writing I is equivalent to MSUM ENGL 101 English composition I (Goal 1)

COMM 1120 - Intro to Public Speaking is equivalent to MSUM COMM 100 Speech Communication (Goal 1)

CHEM 1110 - Aspects of Chemistry I is equivalent to MSUM CHEM 150 and 150L General Chemistry (Goal 3)

ECON 1160 - Principles of Economics: Microeconomics is equivalent to MSUM ECON 202 Princ of Economics I: Micro (Goal 5)

MATH 1100 - College Algebra is equivalent to MSUM MATH 127 College Algebra (Goal 4)

MATH 2210 - General Statistics is equivalent to MSUM MATH 234 Introduction to Probability and Statistics (Goal 4)

PHYS 1001 - Physics Concepts is equivalent to MSUM PHYS 160 and 160L College Physics I (Goal 3)

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

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

Major, Emphasis, Unrestricted Electives Total	33 - 68	Total College Credits Applied (sum of sections A and B)	33 - 57	
MATH 1000 Technical Mathematics	3	Not Applicable	0	
Plumbing Technology Diploma, 33 cr Powersports Technology Diploma, 54 cr		applied as unrestricted elective credits*	18	
HVAC/R – Heating Ventilation, Air Conditioning & Refrigeration Diploma, 33 cr		Additional credits up to 18 will be	Up to	
Electrical Technology – Electrician Diploma, 65 cr Graphic Design Technology Diploma, 54 cr		Technical Credits as prescribed in the program	30	
Drafting and 3D Technologies Diploma, 51 cr Electrical Lineworker Technology Diploma, 33 cr				
Technical credits as prescribed in program Automotive Service Technology Diploma 57 cr Diesel Equipment Technology Diploma, 56 cr	a			

Special Notes, if any: *No more than 48 technical credits will be applies as elective credit. If the program doesn't have that many technical credits, that lower number of credits will be applied.

	course prefix, number and name	Credits
	Remaining MnTC/ LASC Goal Requirements	24 - 33
	MATH 127 College Algebra (Goal 4)	3
	MATH 234 Intro to Probability & Statistics (Goal 4)	3
	ECON 202 Principles of Economics I: Micro (Goal 5)	3
	ACCT 230 Principles of Accounting I	3
	MGMT 260 Principles of Management	3
	OM 380 Methods Improvement	3
	OM 393 Occupational Safety & Health	3
	OM 395 Computer Applications in Business	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
	OM 469 Internship	3
	Electives (needed to bring total credits for BS to 120)	0 - 9
	Total Remaining University Credits	69 -
Special Notes: * Goal areas must be met a	HE HONE HONE HONE HONE IN THE HONE HONE HONE HONE HONE HONE HONE HO	87

College (sending) Credits		of Total Program Credits		
MnTC/General Education		University (receiving) Requirements		
Major, Emphasis, Unrestricted Electives or Other	33- 68			
Total College Credits	33 - 74	Total College Condition of		
	4	Total College Credits Applied	33 - 5	
		Remaining credit to be taken at the university (receiving institution)	63	
		Total Program Credits	120 -	
Special Notes, if any:			126	

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	Mary Johnson	INUG.	U-W.
Academic Dean	Carrie Ward	Control	
University	Name	Signature	4-11-19
Department Chairperson	Pam McGee	Digitature	Date
Academic Dean	Denise Gorsline	Dentse Harley	4.26.19
Chief Academic Officer	Marsha Weber	Marshe We	ver 4 3
DARS Encoder	Jolene Richardson	John Richard un	5/8/10
	Date when equivalenci	es were encoded in DARS by the receiving M	InSCII institution