

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN

MINNEAPOLIS 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 **MINNEAPOLIS 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 programs (hereinafter sending program):

Aircraft Maintenance Technician AAS, 104 credits 47.0607

CNC Machinist AAS, 60 credits 48.0510

Computer Forensics AAS, 60 credits 11.100300

Computer Support & Network Administration AAS, 60 credits 11.090100

Heating, Ventilation, Air Conditioning & Refrig AAS, 72 credits 47.020100

Photography & Motion AAS, 60 credits 50.040600

Software Development AAS, 60 credits 11.020100

Web Design & Front-End Development AAS, 60 credits 11.0801

Welding & Metal Fabrication AAS, 60 credits 48.0508

and the receiving institution has established an **Operations Management: Emphasis in Technical 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, including grade requirements for courses and an overall GPA requirement.

Transfer of Credits

- A. The receiving institution will accept **54 - 63 credits** from the sending program. A total of **57 - 63 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 **3/30/2021** and shall remain in effect until the end date of **3/30/2026** 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 **9/30/2025** (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	Minneapolis Community & Technical College	Minnesota State University Moorhead
Program name	Aircraft Maintenance Technician AAS, 104 credits 47.0607 CNC Machinist AAS, 60 credits 48.0510 Computer Forensics AAS, 60 credits 11.100300 Computer Support & Network Administration AAS, 60 credits 11.090100 Heating, Ventilation, Air Conditioning & Refrig AAS, 72 credits 47.020100 Photography & Motion AAS, 60 credits 50.040600 Software Development AAS, 60 credits 11.020100 Web Design & Front-End Development AAS, 60 credits 11.0801 Welding & Metal Fabrication AAS, 60 credits 48.0508	Operations Management
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

- 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						
General Education Requirements Students must select from at least two (2) of the (10) goal areas of the MNTC. A minimum of three credits from goal one and three credits from goals 7,8, 9, or 10 are required. Aircraft Maintenance Technician (15 cr) CNC Machinist (15 cr) Computer Forensics (27 cr) Computer Support & Network Administration(15 cr) Heating, Ventilation, Air Conditioning & Refrig (15 cr) Photography & Motion (15 cr) Software Development (15 cr) Web Design & Front-End Development (15 cr) Welding & Metal Fabrication (15 cr)		15 - 27	MnTC General Education Courses	1 - 10	15 - 27	
ACMT 1105 Basic Science (4)		0	Not applicable		0	
MnTC/General Education Total		15 - 27				

Special Notes: MSUM will accept other MnTC credits and will transfer the same number of credits and goal areas as MCTC awards. Students should work with their advisor at MCTC and MSUM to choose the best general education courses to take at MCTC.

CMST 1005 Public Speaking (3cr) is equivalent to MSUM COMM 100 Speech Communication, Goal Area 1.

ENGL 1110 College Composition (3 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1B.

ENGA 1110 College Composition (3) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1B.

INFS 1000 Information Literacy & Research (2 cr) transfers to MSUM as Goal Area 2.

ECON 2200 Principles of Microeconomics (3 cr) is equivalent to MSUM ECON 202 Principles of Economics: Micro, Goal Area 5.

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

MATH 1110 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 MATH 1150 Statistical Analysis (4 cr) is equivalent to MSUM MATH 234 Intro to Probability & Statistics, Goal Area 4.
 CHEM 1020 Intro to Chemistry (4 cr) is equivalent to MSUM CHEM 102 Environmental Chemistry Goal Area 3.
 CHEM 1151 Principles of Chemistry I (5 cr) is equivalent to MSUM CHEM 150/ 150L General Chemistry I Goal Area 3.
 PHYS 1100 Intro to Physics (4 cr) transfers to MSUM as Goal Area 3.
 PSCI 1101 American Government is equivalent to MSUM POL 120, American National Govern, Goal Areas 5, 9.

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			
Aircraft Maintenance Technician (85 cr) CNC Machinist (39 cr) Computer Forensics (36 cr) Computer Support & Network Administration(43 cr) Heating, Ventilation, Air Conditioning & Refrig (57 cr) Photography & Digital Imaging (45 cr) Software Development (43 cr) Web Design & Front-End Development (42)		Technical Credits as prescribed in the program	30
Welding & Metal Fabrication (45 cr)		Additional credits up to 18 will be applied as unrestricted elective credits*	Up to 18
ITEC 2950 Information Technology Career Prep (2), GRPH 2540 Career Planning/ Professional Practices (3), MTTC 1015 Applied Machine Shop Math 1 (2), MTTC 1515 Applied Machine Shop Math 2 (2), MTTC 1030 Machine Trades for Related Careers (2)		Not Applicable	0
Major, Emphasis, Unrestricted Electives Total	36 - 85	Total College Credits Applied (sum of sections A and B)	54 - 63

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.

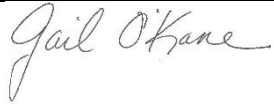




SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
Remaining MnTC/ LASC Goal Requirements*	6 - 18
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 Apps for Technologists	3
OM 470 Purchasing & Sourcing Management	3
OM 482 Quality Management	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 (credits needed to bring total to 120)	0 - 6
Total Remaining University Credits²	57 - 66

Special Notes: * Goal areas must be met and 42 total MnTC/LASC credits earned.
 *Number of elective credits required to bring the total of credits earned to 120 varies.

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15 - 27		
Major, Emphasis, Unrestricted Electives or Other	36 - 85		
Total College Credits	60 - 104	Total College Credits Applied	54 - 63
		Remaining credit to be taken at the university (receiving institution)	57 - 66
		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.

College	Name	Signature	Date
Vice President of Academic Affairs	Gail O'Kane		3/17/2021
University	Name	Signature	Date
Department Chairperson	Pam McGee		3/19/21
Academic Dean	Josh Behl		3/19/2021
Chief Academic Officer	Arrick Jackson		03/24/21
DARS Encoder	Jolene Richardson		4/28/21
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			