

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

**MESABI RANGE 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 **MESABI RANGE 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:

Electrical controls and Maintenance AAS, 72 credits

Graphic Design Media AAS, 73 credits

Industrial Mechanical Technology AAS, 60 credits

(hereinafter sending program), 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 56 - 65 credits from the sending program. A total of 61-64 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 05/01/2018 and shall remain in effect until the end date of 05/01/2023 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 12/01/2022 (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.

March, 2018

PROGRAM ARTICULATION TABLE								
			College (sending)		University (receiving)			
Institution			MESABI RANGE COLLEGE		MINNESOTA STATE UNIVERSITY MOORHEAD			
Program name			Electrical Controls and Maintenance AAS, 72 credits, 15.061305 Graphic Design Media AAS, 73 credits, 10.03001 Industrial Mechanical Technology AAS, 60 credits, 47.030300		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								
<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								

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

General Education Requirement*					
Electrical controls and Maintenance AAS, (17 cr)					
Graphic Design Media AAS, (15 cr)	1 - 10	15 - 17	MnTC General Education courses	1 - 10	15 - 17
Industrial Mechanical Technology AAS, (16 cr)					
MnTC/General Education Total		15 - 17			

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

CHEM 1511 Fund of Chemistry (4 cr) is equivalent to MSUM CHEM 102 Environmental Chemistry, Goal Area 3.
 CHEM 1522 General chemistry I (4 cr) is equivalent to MSUM CHEM 150/ 150L General Chemistry I, Goal area 3.
 MATH 1521 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 STAT 2551 Statistics I (4 cr) is equivalent to MSUM MATH 234 Probability & Statistics, Goal Area 4.
 ECON 1556 Prin Economics: Micro (3 cr) is equivalent to MSUM ECON 202 Prin of Econ I: Micro Goal Areas 5, 8.
 PHYS 1561 College Physics I/ Lab (4 cr) is equivalent to MSUM PHYS 160 college Physics I, Goal Areas 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				
Technical credits as prescribed in program				
Electrical controls and Maintenance AAS, (51cr)		Technical Credits as prescribed in the program	30	
Graphic Design Media AAS, (56 cr)		Additional credits up to 18 will be applied as unrestricted elective credits**	Up to 18	
Industrial Mechanical Technology AAS, (40 cr)				
GECL 1400 Computer Essential (2), GECL 1155 College Seminar (1), GECL 2175 Job Search Strategies (1)		Not Applicable	0	
Major, Emphasis, Unrestricted Electives Total	44 - 58	Total College Credits Applied (sum of sections A and B)	56 - 65	

Special Notes: 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.

SECTION C - Remaining University (receiving) Requirements



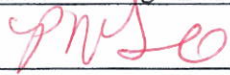

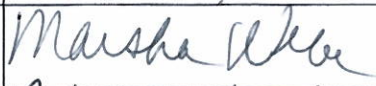

course prefix, number and name	Credits
Gen Ed/ LASC goal areas and credits*	25 - 27
ENGL 387 Technical Report Writing	3
MGMT 260 Principles of Management	3
OM 380 Methods Improvement	3
OM 393 Occupational Safety & Health	3
OM 395 Computer Applications for Technologists	3
OM 469 Internship	3
OM 482 Quality 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
ACCT 230 Principles of Accounting I	3
Electives (if needed to bring total credits to 120)	0 - 1

	Total Remaining University Credits²	61-64
<p>Special Notes, if any: *The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at MRC (see Section A Notes). Students only need to select two science courses (one course must include a lab and the other must include a lab like experience), one course must be from Chemistry and the other from Physics.</p> <p>Choose one Chemistry course from the following: CHEM 102 Environmental Chemistry (3) OR CHEM 105 Crime Scene Science (3) OR CHEM 110 Fundamentals of Chemistry (3) and CHEM 110L Fundamentals of Chemistry Lab (1) OR CHEM 150 General Chemistry I (3) and CHEM 150L General Chemistry Laboratory I (1) OR CHEM 304 The Environment and You (3) PHYS 160 College Physics I (3) and PHYS 160L College Physics I Lab (1) ECON 202 Principles of Economics I: Micro (3) MATH 127 College Algebra (3) MATH 234 Probability & Statistics (3)</p>		

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15 - 17		
Major, Emphasis, Unrestricted Electives or Other	44 - 58		
Total College Credits	60 - 73	Total College Credits Applied	56 - 65
		Remaining credit to be taken at the university (receiving institution)	61 - 64
		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
Chief Academic Officer	Shelly McCauley Jugovich		3/16/18
<u>Interim Provost</u>	Shelly McCauley Jugovich		3/16/18
Title			
University	Name	Signature	Date
Department Chairperson	Pam McGee		3/20/18
Academic Dean	Denise Gorsline		3-21-18
Chief Academic Officer	Marsha Weber		3-22-18
DARS Encoder	Jolene Richardson		4/2/18

Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.

March, 2018