

MINNESOTA STATE COLLEGES AND  
UNIVERSITIES\*  
ARTICULATION AGREEMENT  
BETWEEN

NORTHLAND 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 **NORTHLAND 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):

**Architectural Technology and Design Diploma, 15.1303**

**Auto Body Collision Technology Diploma, 47.0603**

**Automotive Service Technology Diploma, 47.0604**

**Aviation Maintenance Technology Diploma, 47.0607**

**Carpentry – Residential Diploma, 46.0201**

**Construction Electricity Diploma, 46.0302**

**Construction Plumbing Diploma, 46.0503**

**Heating Ventilation & Air Conditioning Diploma, 47.0201**

**Welding Process Technology Diploma, 48.0508**

**Welding Technology Diploma, 48.0508**

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, including grade requirements for courses and an overall GPA requirement.

**Transfer of Credits**

- A. The receiving institution will accept **31 - 48 credits** from the sending program. A total of **86 - 89 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 7/01/2015 and shall remain in effect until the end date of 7/01/2020 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 1/01/2020 (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.

<b>PROGRAM ARTICULATION TABLE</b>		
	<b>College (sending)</b>	<b>University (receiving)</b>
Institution	Northland Community and Technical College	Minnesota State University Moorhead
Program name	Architectural Technology and Design Diploma, 65 credits, 15.130302 Auto Body Collision Technology Diploma, 64 credits, 47.060300 Automotive Service Technology Diploma, 64 credits, 47.060400/ 47.060401 Aviation Maintenance Technology Diploma, 88 credits, 47.060700 Carpentry – Residential Diploma, 34 credits, 46.020104 Construction Electricity Diploma, 74 credits, 46.030200 Construction Plumbing Diploma, 34 credits, 46.050300 Heating Ventilation & Air Conditioning Diploma, 37 credits, 47.020101 Welding Process Technology Diploma, 34 credits, 48.050800 Welding Technology Diploma, 36 credits, 48.050800	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)		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)			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
Minnesota Transfer Curriculum-General Education						
General Education Requirements						
Architectural Technology and Design Diploma, 0 credits						
Auto Body Collision Technology Diploma, 0 credits						
Automotive Service Technology Diploma, 0 credits						
Aviation Maintenance Technology Diploma, 0 credits						
Carpentry – Residential Diploma, 3 credits						
MnTC General Education Courses						
1 - 10						
0 - 3						
Construction Electricity Diploma, 0 credits						
Construction Plumbing Diploma, 0 - 3 credits						
Heating Ventilation & Air Conditioning Diploma, 0 – 3 credits						
Welding Process Technology Diploma, 0 credits						
Welding Technology Diploma, 0 credits						
<b>MnTC/General Education Total</b>		0 - 3				

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

ENGL 1111 Composition I (3 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1B, 2.

ECON 2201 Microeconomics (3 cr) is equivalent to MSUM ECON 202 Principles of Economics: Micro, Goal Area 5.

MATH 1110 College Algebra (3 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.

MATH 2203 Statistics (4 cr) is equivalent to MSUM MATH 234 Probability & Statistics, Goal Area 4.

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

CHEM 1020 Intro to Chemistry (4 cr) is equivalent to MSUM CHEM 102 Environmental Science Goal Area 3.  
 PHYS 1111 General Physics I (4 cr) is equivalent to MSUM PHYS 160 College Physics I & Lab Goal Area 3.  
 PHYS 1112 General Physics II (4 cr) is equivalent to MSUM PHYS 161 College Physics II & Lab Goal Area 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			
Architectural Technology and Design Diploma, 65 credits		Technical Credits as prescribed in the program	30
Auto Body Collision Technology Diploma, 58 credits			
Automotive Service Technology Diploma, 58 credits			
Aviation Maintenance Technology Diploma, 84 credits			
Carpentry – Residential Diploma, 31 credits			
Construction Electricity Diploma, 67 credits			
Construction Plumbing Diploma, 31 credits			
Heating Ventilation & Air Conditioning Diploma, 34 credits			
Welding Process Technology Diploma, 33 credits			
Welding Technology Diploma, 32 credits			
CRLT 2103 Job Seeking/ Keeping (1), CPTR 1100 Computer Basics (1), HPER 1410 First Aid/ CPR (1), SSCI 1101 Human Relations (3), GTEC 1108 Internet Literacy Skills (1), MATH 1001 Technical Mathematics		Not Applicable	0
<b>Major, Emphasis, Unrestricted Electives Total</b>	31 - 88	<b>Total College Credits Applied (sum of sections A and B)</b>	31 - 48

**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*	39 - 42
ACCT 230 Principles of Accounting I	3
MGMT 360 Principles of Management	3
OM 380 Methods Improvement	3
OM 393 Occupational Safety & Health	3
OM 482 Quality Planning & Implementation	3
OM 394 Computer Applications in Business	3
OM 483 Cost Analysis	3
OM 485 Production & Inventory Management	3
PMGT 300 Project Management & Scheduling	3
PMGT 385 Process Leadership	3
ENGL 387 Technical Report Writing	3
OM 469 Internship	3
Electives if needed**	Up to 11
<b>Total Remaining University Credits<sup>2</sup></b>	<b>86 - 89</b>

**Special Notes, if any: \*The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at NCTC (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.**

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 Introduction to Probability and Statistics (3)


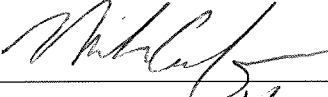
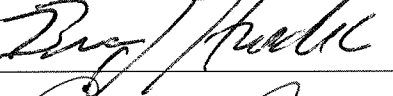

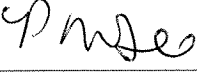

\*\*Number of elective credits required to bring the total of credits earned to 120 varies.



### SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	0 - 3		
Major, Emphasis, Unrestricted Electives or Other	31 - 88		
<b>Total College Credits</b>	34 - 88	<b>Total College Credits Applied</b>	31 - 48
		<b>Remaining credit to be taken at the university (receiving institution)</b>	86 - 89
		<b>Total Program Credits</b>	120 - 126

**Special Notes, if any:**

<sup>2</sup> 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
Academic Dean	Curtis Zoller		7/27/15
Academic Dean	Mike Curfman		7-16-15
Academic Dean	Brian Huschle		7-14-15
Chief Academic Officer	Carey Castle		16 Sep 15
University	Name	Signature	Date
Department Chairperson	Pam McGee		9-23-15
Academic Dean	Dr. Marsha Weber		7-5-15

Chief Academic Officer	Dr. Joseph Bessie		11/9/15
DARS Encoder	Tara Spletstoser		1/20/14
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			