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

Computer Support Specialist AAS, 11.0901

Electric Power Technology AAS, 15.0303

Electrical Transmission Systems Technology AAS, 46.0301

Electronics Telecommunications Technology AAS, 47.0103

Engineering Technology AAS, 15.0000

GIS Technician AAS, 11.0901

Graphic Design & Communications AAS, 50.0402

Heating Ventilation & Air Conditioning AAS, 47.0201

Instrumentation & Control AAS, 15.0499

Mechanical Maintenance Technology AAS, 47.0303

Nuclear Power AAS, 41.0205

Petroleum Production Technology AAS

Power Plant Technology AAS, 15.0699

Process Plant T chnology AAS, 15.0612

Renewable Ge eration Technology AAS

Sustainable Cc nstruction Technology AAS

Web Page Dev lopment & Design AAS, 11.0801

Welding AAS, 8.0508

and the receiv ng 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. Student must fulfill the graduation requirements at both institutions.
C. Student 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 51 - 63 credits from the sending program. A total of 60 - 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 01/01/2016 and shall remain in effect until the end date of 01/01/2021 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 07/01/2020 (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.

PROGRAM ARTICULATION TABLE		
	College (sending)	**University (receiving)**
Institution	BISMARCK STATE COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Automotive Technology AAS, 47.0604 (75 cr) Automotive Collision Technology AAS, 47.0603 (60 cr) Carpentry (Residential) AAS, 46.0201 (60 cr) Computer Support Specialist AAS, 11.0901 (67 – 68 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 cr)	Operations Management

	Engineering Technology AAS, 15.0000 (63 – 65 cr) GIS Technician AAS, 11.0901 (62 cr) Graphic Design & Communications AAS, 50.0402 (63 cr) Heating Ventilation & Air Conditioning AAS, 47.0201 (60 cr) Instrumentation & Control AAS, 15.0499 (74 cr) Mechanical Maintenance Technology AAS, 47.0303 (67 cr) Nuclear Power AAS, 41.0205 (67 cr) Petroleum Production Technology AAS (65 cr) Power Plant Technology AAS, 15.0699 (67 cr) Process Plant Technology AAS, 15.0612 (68 cr) Renewable Generation Technology AAS (69 cr) Sustainable Construction Technology AAS (61 cr) Web Page Development & Design AAS, 11.0801 (62 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

- 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 Way
Minnesota Transfer Curriculum-General Education						
General Education Requirements Automotive Technology AAS (9 - 12 cr) Automotive Collision Technology AAS (9 - 12 cr) Carpentry (Residential) AAS (9 - 15 cr) Computer Support Specialist AAS (12cr) Electric Power Technology AAS (9 - 15 cr) Electrical Transmission Systems Technology AAS (9 - 15 cr) Electronics Telecommunications Technology AAS (12 cr) Engineering Technology AAS (22 - 24 cr) GIS Technician AAS (22 - 23 cr) Graphic Design & Communications AAS (9 cr) Heating Ventilation & Air Conditioning AAS (9 - 16 cr) Instrumentation & Control AAS (12 cr) Mechanical Maintenance Technology AAS (9 - 15 cr) Nuclear Power AAS (9 -15 cr) Petroleum Production Technology AAS (9 -15 cr) Power Plant Technology AAS (9 - 15 cr) Process Plant Technology AAS (9 - 15 cr) Renewable Generation Technology AAS (9 - 15 cr) Sustainable Construction Technology AAS (12 - 25 cr) Web Page Development & Design AAS (9 -12 cr) Welding AAS (9 - 15 cr)			MNTC General Education courses	1 - 10	9 - 25	
MnTC/General Education Total		9 - 25				

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.

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.

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

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/ 150LGeneral 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 cr) Computer Support Specialist AAS (52cr) Electric Power Technology AAS (53 cr) Electrical Transmission Systems Technology AAS (51 cr) Electronics Telecommunications Technology AAS (58 cr) Engineering Technology AAS (38 cr) GIS Technician AAS (33 cr) Graphic Design & Communications AAS (48 cr) Heating Ventilation & Air Conditioning AAS (44 cr) Instrumentation & Control AAS (58 cr) Mechanical Maintenance Technology AAS (52 cr) Nuclear Power AAS (52 cr) Petroleum Production Technology AAS (47 cr) Power Plant Technology AAS (49 cr) Process Plant Technology AAS (50 cr) Renewable Generation Technology AAS (51 cr) Sustainable Construction Technology AAS (36 - 43 cr) Web Page Development & Design AAS (45 cr) Welding AAS (49 cr)		Technical Credits as prescribed in the program Additional credits up to 18 will be applied as unrestricted elective credits	30 Up to 18	
CSCI 101 Intro to Computers (3), CSCI 122 Beginning Visual Basic (3 – 4), CSCI 160 Computer Sci I (3 – 4), CIS 164 Networking Fundamentals (4), ENRT 103 Applied Math (3), BOTE 116 Student Leadership Practicum (1), BADM 202 Principles of Management (3), BADM 210 Advertising I (3), BADM 240 Sales (3), BADM 281 (3), BADM 282 Human Resource Mgmt (3), GIS 105 Fundamentals of GIS (3)		Not Applicable	0	
Major, Emphasis, Unrestricted Electives Total	36 - 60	**Total College Credits Applied (sum of sections A and B)**	51 - 63	

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
Remaining MnTC/ LASC Goal Requirements	18 – 33
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* (Consult with MSUM advisor for best choices.)	0 - 7
Total Remaining University Credits[2]	60 - 69

Special Notes, if any: The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at BSC (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	9 - 24		
Major, Emphasis, Unrestricted Electives or Other	36 - 60		
Total College Credits	60 - 75	**Total College Credits Applied**	51 - 63
		Remaining credit to be taken at the university (receiving institution)	60 - 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
Provost	Drake Carter	Drake Carter	12-29-2015

University	Name	Signature	Date
Department Chairperson	Pam McGee	Pam McGee	1-8-16
Academic Dean	Dr. Marsha Weber	Marsha Weber	2-8-16
Chief Academic Officer	Joseph Bessie Dr. ~~Michelle Malett~~	Joseph Bessie	2/10/16
DARS Encoder	Jolene Richardson	Jolene Richardson	2/13/17
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			

Addendum to Transfer Articulation Agreement

Between

Bismarck State College

And

Minnesota State University Moorhead

In

Technical AAS Programs

And

Operations Management BS

For purposes of transfer between Bismarck State College and Minnesota State University Moorhead, MSU Moorhead has changed course numbers as follows:

-MGMT 360 Principles of Management is now MGMT 260 Principles of Management (3 cr)
-OM 394 Computer Applications in Business is OM 395 Computer Applications in Business (3 cr)

Bismarck State College has made a few program changes as follows:.
-Computer Support Specialist AAS is now called Cyber security & Computer Networks. (Of the 76 – 77 credits, 12 are considered general education and 61 are considered as technical for the purposes of this agreement.)
-Renewable Generation Technology AAS is now called Energy Services & Renewable Technician AAS. (Of the 70 credits, 9 – 12 are considered general education and 51 are considered technical for the purposes of this agreement..)
- Sustainable Construction Technology AAS has been inactivated.

Approvals:

Daniel Leingang, Chief Academic Officer — Date: 24 Aug 17

Marsha Weber, Chief Academic Officer — Date: 9-1-17

Denise Gorsline, Academic Dean — Date: 30 Aug 17

August, 2017