

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

**Century 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 **Century 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 (hereinafter sending program):

Automotive Body Technician, AAS 60 credits, 470603

Cybersecurity Virtualization Forensics: Cybersecurity & Network Forensics AAS, 60 credits, 111003

**Cybersecurity Virtualization Forensics: Digital Forensics & Reverse Engineering Malware Analysis
AAS, 60 credits, 111003**

Engineering CAD Technology AAS, 60 credits, 151302

Enterprise Computing Tech: Linux System Administrator AAS, 60 credits, 151202

Enterprise Computing Tech: Microsoft System Administrator AAS, 60 credits 151202

Facilities Maintenance Engineer AAS, 60 credits, 460401

Heating, Ventilation, and Air Conditioning Technology 60 credits, 470201

Horticulture Technology AAS, 60 credits, 010605

Information and Telecommunications Tech: Network Security Specialist AAS, 60 credits, 110901

Information and Telecommunications Tech: Networking Specialist AAS, 60 credits, 110901

Interior Design, AAS 60 credits, 500408

Orthotics Technology AAS, 60 credits, 512307

Prosthetic Technology AAS, 60 credits, 512307

Radiologic Technology AAS, 78 credits, 510911

Web Design (VCT) AAS, 60 credits, 090702

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 **57 - 68 credits** from the sending program. A total of approximately **64 - 68 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 10/01/2018 and shall remain in effect until the end date of 10/01/2023 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 04/01/2023 (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		
	College (sending)	University (receiving)
Institution	Century College	Minnesota State University Moorhead
Program name	Automotive Body Technician, AAS 60 credits, 470603 Cybersecurity Virtualization Forensics: Cybersecurity & Network Forensics AAS, 60 credits, 111003 Cybersecurity Virtualization Forensics: Digital Forensics & Reverse Engineering Malware Analysis AAS, 60 credits, 111003 Engineering CAD Technology AAS, 60 credits, 151302 Enterprise Computing Tech: Linux System Administrator AAS, 60 credits, 151202 Enterprise Computing Tech: Microsoft System Administrator AAS, 60 credits, 151202 Facilities Maintenance Engineer AAS, 60 credits, 460603 Heating, Ventilation, and Air Conditioning Technology 60 credits, 470201 Horticulture Technology AAS, 64 credits, 010605 Information and Telecommunications Tech: Network Security Specialist AAS, 60 credits, 110901	Operations Management, BS, 120 credits, 52.020500

	Information and Telecommunications Tech: Networking Specialist AAS, 60 credits 110901 Interior Design, AAS 60 credits, 500408 Orthotics Technology AAS, 60 credits, 512307 Prosthetic Technology AAS, 60 credits, 512307 Radiologic Technology AAS, 78 credits, 510911 Web Design (VCT) AAS, 60 credits, 090702	
Award Type (e.g., AS)	AAS	BS
Credit Length	Varies, see above	120
CIP code (6-digit)	Varies, see above	52.020500
Describe program admission requirements (if any)		AAS, with 30 or more 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						
Automotive Body Technician AAS (16 cr)*						
Cybersecurity Virtualization Forensics:						
Cybersecurity & Network Forensics AAS (16 cr)						
Cybersecurity Virtualization Forensics: Digital						
Forensics & Reverse Engineering Malware						
Analysis AAS (16 cr)						

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

Engineering CAD Technology AAS (17 cr) Enterprise Computing Tech: Linux Sys Admin AAS (16 cr) Enterprise Computing Tech: Microsoft Sys Admin AAS (16 cr) Facilities Maintenance Engineer AAS (16 cr) Heating, Ventilation, and Air Conditioning Technology (16 cr) Horticulture Technology – Landscape AAS (16 cr) Information and Telecommunications Tech: Network Security Specialist AAS (16 cr) Information and Telecommunications Tech: Networking Specialist AAS (16 cr) Interior Design, AAS (16 cr) Orthotics Technology AAS (20 cr) Prosthetic Technology AAS (20 cr) Radiologic Technology AAS (20 cr) Web Design (VCT) AAS (16 cr)			MnTC General Education courses	1 - 10	16 - 20
*Additional elective credits		3	Not Applicable		0
MnTC/General Education Total		16 - 20			
<p>*Students should work with their advisor at Century and MSU Moorhead to choose best general education courses to take at Century. Possible equivalencies are listed below. MSUM will also accept other MnTC credits within the AAS. MSUM will transfer the same number of credits and goal area Century awards.</p> <p>ENGL 1021 Composition I equivalent to MSUM's ENGL 101 English Composition I (Goal 1) COMM 1021 Fundamentals of Public Speaking equivalent to MSUM COMM 100 Speech Communication (Goal 1) CHEM1020 Chemistry Concepts equivalent to MSUM CHEM 110 and 110L Fundamentals of Chemistry OR CHEM 1041 Principles of Chemistry I and lab equivalent to MSUM CHEM 150 and 150L General Chemistry (Goal 3) GEOG 1021 Physical Geography is equivalent to MSUM GEOS 110 Introductory Physical Geography (Goals 3, 10) PHIL 1035 Biomedical Ethics is equivalent to MSUM PHIL 311 Morals and Medicine (Goals 6, 9) PHYS 1020 Physics Concepts and lab equivalent to MSUM PHYS 160 and 160L College Physics I (Goal 3) PSYC 1020 General Psychology is equivalent to MSUM PSY 113 General Psychology (Goal 5) PSYC 1041 Developmental Psychology is equivalent to MSUM PSY 202 (Goals 5, 7) MATH 1061 College Algebra I equivalent to MSUM MATH 127 College Algebra (Goal 4) MATH1025 Statistics equivalent to MSUM Math 234 Introduction to Probability and Statistics (Goal 4) ECON 1023 Microeconomics equivalent to MSUM ECON 202 Principles of Economics I: Micro (Goal 5) ART 1020 Art Appreciation equivalent to MSUM ART 170 Art Appreciation (Goal 6, 8)</p>					
SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other					
<pre>(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). <u>Restricted electives (in Major)</u> 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).</pre>					
Major, Emphasis, Restricted, Unrestricted Electives or Other Courses					
Technical credits as prescribed in program Automotive Body Technician AAS (41 - 44 cr)* Cybersecurity Virtualization Forensics: Cybersecurity & Network Forensics AAS (44 cr) Cybersecurity Virtualization Forensics: Digital Forensics & Reverse Engineering Malware Analysis AAS (44 cr) Engineering CAD Technology AAS (43 cr) Enterprise Computing Tech: Linux Sys Admin AAS (44 cr) Enterprise Computing Tech: Microsoft Sys Admin AAS (44 cr) Facilities Maintenance Engineer AAS (44 cr)					

Heating, Ventilation, and Air Conditioning Technology (44 cr) Horticulture Technology – Landscape AAS (44 cr) Information and Telecommunications Tech: Network Security Specialist AAS (44 cr) Information and Telecommunications Tech: Networking Specialist AAS (44 cr) Interior Design, AAS (44 cr) Orthotics Technology AAS (40 cr) Prosthetic Technology AAS (40 cr) Radiologic Technology AAS (58 cr) Web Design (VCT) AAS (44cr)		Technical Credits as prescribed in the program Additional credits up to 18 will be applied as unrestricted elective credits	30 Up to 18	
Major, Emphasis, Unrestricted Electives Total	41 - 58	Total College Credits Applied (sum of sections A and B)	57 - 68	
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. Up to 4 credits of internship credit will transfer. * Elective credit may apply toward technical, depending on the type of course taken.				

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	Remaining MnTC/ LASC Goal Requirements	19 - 23
	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
	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 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
	Total Remaining University Credits²	64 - 68

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

- 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	16 - 20		
Major, Emphasis, Unrestricted Electives or Other	44 - 58		
Total College Credits		Total College Credits Applied	57 - 68
		Remaining credit to be taken at the university (receiving institution)	64 - 68
		Total Program Credits	124 - 128
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			
VP Academic Affairs Title	Jenni Swenson	Jenni Swenson	10/5/18
University	Name	Signature	Date
Department Chairperson	Joh Behl Pam McGee	Joh Behl	10/18/18
Academic Dean	Denise Gorsline	Denise Gorsline	10.18.18
Chief Academic Officer	Marsha Weber	Marsha Weber	10-24-18
DARS Encoder	Jolene Richardson	Jolene Richardson	10/25/18
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			