

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

**ANOKA 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 **ANOKA 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:

Architectural Technology AAS, 60 credits 15.130300  
Automotive Technician AAS, 72 credits 47.060400  
CNC Manufacturing Technology, AAS 69 credits 48.050102  
Electronic Engineering Technology, AAS 72 credits 15.030303  
Golf Course Grounds Management AAS, 69 credits 01.060713  
Health Information Technology, AAS 60 credits 51.070700  
Information Technology Management AAS  
    Convergence Technologies Emphasis, 72 credits  
    Information Systems Analyst, Emphasis, 72 credits 15.120204  
    Mobile Development Emphasis, 72 credits  
    Multimedia & Gam Programming, Emphasis, 72 credits 15.120206  
    Network Analyst, Emphasis, 72 credits 15.120505  
    Software Development Emphasis, 72 credits 15.120207  
    Web Design & Development, Emphasis, 72 credits 15.120208  
Landscape & Nursery Technology AAS, 72 credits 01.060500  
Mechanical CAD Drafting & Design AAS, 69 credits 15.130603  
Surgical Technology AAS, 60 credits 51.090900

(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**

April, 2015

- A. The receiving institution will accept 51 - 63 credits from the sending program. A total of 63 - 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 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 09/01/2015 and shall remain in effect until the end date of 09/01/2020 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 03/01/2020 (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>
<b>Institution</b>	ANOKA TECHNICAL COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
<b>Program name</b>	Architectural Technology AAS, 60 credits 15.130300 Automotive Technician AAS, 72 credits 47.060400 CNC Manufacturing Technology, AAS 69 credits 48.050102 Electronic Engineering Technology, AAS 72 credits 15.030303 Golf Course Grounds Management AAS, 69 credits 01.060713 Health Information Technology, AAS 60 credits 51.070700 Information Technology Management AAS Convergence Technologies Emphasis, 72 credits	Operations Management

	Information Systems Analyst, Emphasis, 72 credits 15.120204 Mobile Development Emphasis, 72 credits Multimedia & Gam Programming, Emphasis, 72 credits 15.120206 Network Analyst, Emphasis, 72 credits 15.120505 Software Development Emphasis, 72 credits 15.120207 Web Design & Development, Emphasis, 72 credits 15.120208 Landscape & Nursery Technology AAS, 72 credits 01.060500 Mechanical CAD Drafting & Design AAS, 69 credits 15.130603 Surgical Technology AAS, 60 credits 51.090900	
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) <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 Requirement*						

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

Architectural Technology AAS (15 cr) Automotive Technician AAS (15 cr) CNC Manufacturing Technology AAS (15 cr) Electronic Engineering Technology AAS (15 cr) Golf Course Grounds Management AAS (15 cr) Health Information Technology AAS (15 cr) Information Technology Management AAS Convergence Technologies Emphasis, (15 cr) Information Systems Analyst, Emphasis (15 cr) Mobile Development Emphasis (15 cr) Multimedia & Gam Programming, Emphasis (15 cr) Network Analyst, Emphasis (15 cr) Software Development Emphasis (15 cr) Web Design & Development, Emphasis (15 cr) Landscape & Nursery Technology AAS (15 cr) Mechanical CAD Drafting & Design AAS (15 cr) Surgical Technology AAS (19 cr)	1 - 10	15 - 19	MnTC General Education courses	1 - 10	15 - 19	
<b>MnTC/General Education Total</b>		15 - 19				
<p><b>Special Notes, if any: *Students should work with their advisor at Anoka Tech and also MSU Moorhead to choose best general education courses to take at MSCTC.</b> MSUM will accept other MnTC credits within the AAS and will transfer the same number of credits and goal areas Anoka Technical College awards.</p> <p>ENGL 1105 Composition I (4 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1, 2.</p> <p>SPCH 1120 Public Speaking (3 cr) is equivalent to MSUM COMM 100, Goal Area 1.</p> <p>BIOL 1106 Intro to Biology (4 cr) transfers as Goal Area 2, 3.</p> <p>NSCI 1020 Plant Science (3 cr) transfers as Goal Area 3,10.</p> <p>MATH 1600 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.</p> <p>MATH 1650 College Trigonometry (3 cr) transfers as Goal Area 4</p> <p>MATH 1550 Intro to Statistics (4 cr) is equivalent to MSUM MATH 234 Probability &amp; Statistics, Goal Area 4.</p> <p>PSYC 1505 General Psychology (4 cr) is equivalent to MSUM PSY 113 General Psychology, Goal Area 5.</p> <p>SOSC 1010 Intro to Sociology (4 cr) is equivalent to MSUM SOC 110 Intro to Sociology, Goal Areas 5, 7.</p> <p>COM 1100 Prof/ Personal Communications transfers as MnTC Goal Area 1.</p>						
<b>SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other</b>						
<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  Architectural Technology AAS (45 cr) Automotive Technician AAS* (55 cr) CNC Manufacturing Technology AAS (54 cr) Electronic Engineering Technology AAS (57 cr) Golf Course Grounds Management AAS* (46 - 49 cr) Health Information Technology AAS (36 cr) Information Technology Management AAS Convergence Technologies Emphasis, (57 cr) Information Systems Analyst, Emphasis (57 cr) Mobile Development Emphasis (57 cr) Multimedia & Gam Programming, Emphasis (57 cr) Network Analyst, Emphasis (57 cr) Software Development Emphasis (57 cr) Web Design & Development, Emphasis (57 cr) Landscape & Nursery Technology AAS* (50 - 53 cr) Mechanical CAD Drafting & Design AAS (49 cr) Surgical Technology AAS (37 cr)		Technical Credits as prescribed in the program  Additional credits up to 18 will be applied as unrestricted elective credits**	30  Up to 18	
COMP 1000 Intro to Computers (3), COMP 1002 Computer Technologies for Comm (2), HLTH 1000 Disease Conditions (2), HLTH 1005 Anatomy & Physiology (4), HLTH 1040 Medical Terminology (2), MATH 1050 Technical Mathematics (5), TURF 1320 Spanish for the Workplace (3)		Not Applicable	0	
<b>Major, Emphasis, Unrestricted Electives Total</b>	36 - 57	<b>Total College Credits Applied (sum of sections A and B)</b>	51 - 63	
<b>Special Notes:</b> *No more than 4 credits for internship or occupational experience will transfer. ** 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*	23 - 27
	ENGL 387 Technical Report Writing	3
	MGMT 360 Principles of Management	3
	OM 380 Methods Improvement	3
	OM 393 Occupational Safety & Health	3
	OM 394 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 (Consult with your MSUM Advisor for best choices)**	0 - 6

	<b>Total Remaining University Credits<sup>2</sup></b>	63 - 69
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**Special Notes, if any: \*The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at Anoka Technical College (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.**

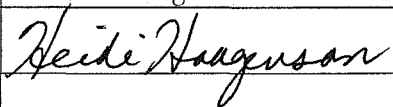
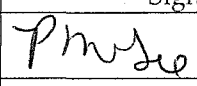
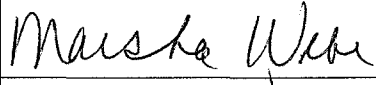


- Choose one Chemistry course from the following:  
 CHEM 102 Environmental Chemistry (3) OR  
 CHEM 105 Crime Scene Science (3) OR  
 CHEM 110 Fundamentals of Chemistry (3) **and**  
 CHEM 110L Fundamentals of Chemistry Lab (1) OR  
 CHEM 150 General Chemistry I (3) **and**  
 CHEM 150L General Chemistry 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 Probability & Statistics (3)

\*\* Number of elective credit needed will bring the total to 120 for the degree.

<b>SECTION D - Summary of Total Program Credits</b>			
<b>College (sending) Credits</b>		<b>University (receiving) Requirements</b>	
<b>MnTC/General Education</b>	15 - 19		
<b>Major, Emphasis, Unrestricted Electives or Other</b>	36 - 57		
<b>Total College Credits</b>	60 - <b>72</b>	<b>Total College Credits Applied</b>	51 - 63
		<b>Remaining credit to be taken at the university (receiving institution)</b>	63 - 69
		<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
Chief Academic Officer	HEIDI HAAGENSEN		10/1/15
Title			
University	Name	Signature	Date
Department Chairperson	Pam McGee		10/12/15
Academic Dean	Dr. Marsha Weber		11-5-15
Chief Academic Officer	Dr. Joseph Bessie		11/9/15
DARS Encoder	Tara Spletstoser		1/21/16

April, 2015