

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:

Architecture and Construction Technician Diploma, 54 credits 15.130300

Automotive Technician Diploma, 60 credits 47.060400

CNC Machinist Diploma 50 credits 48.050104

Electronic Engineering Diploma 15.030300

Computer Servicing/ Network Technician Emphasis, 69 credits 15.120211

Electronic Control Technician Emphasis, 72 credits 15.030312

Special Electronics Technician Emphasis, 69 credits 15.030312

Golf Course Grounds Management Diploma, 67 credits 01.060713

Landscape Technology Diploma, 67 credits 01.060500

Mechanical CAD Drafting & Design – CAD Drafter Diploma, 69 credits 15.130600

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 48 - 70 credits from the sending program. A total of 66 - 78 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 08/01/2015 and shall remain in effect until the end date of 08/01/2020 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.

PROGRAM ARTICULATION TABLE		
	College (sending)	University (receiving)
Institution	ANOKA TECHNICAL COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Architecture and Construction Technician Diploma, 54 credits 15.130300 Automotive Technician Diploma, 60 credits 47.060400 CNC Machinist Diploma 50 credits 48.050104 Electronic Engineering Diploma 15.0303300 Computer Servicing/ Network Technician Emphasis 69 credits 15.120211 Electronic Control Technician Emphasis 72 credits 15.030312 Special Electronics Technician Emphasis 69 credits 15.030312 Golf Course Grounds Management Diploma, 67 credits 01.060713 Landscape Technology Diploma, 67 credits 01.060500 Mechanical CAD Drafting & Design – CAD Drafter Diploma, 69 credits 15.130600	Operations Management
Award Type (e.g., AS)	Diploma	BS
Credit Length	(See above.)	120
CIP code (6-digit)	(See above.)	52.020500
Describe program		AAS with 30+ prescribed technical credits, as prescribed by program's accrediting board,

admission requirements (if any)	The Association of Technology, Management, and Applied Engineering (ATMAE)
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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 Requirement*						
Architecture and Construction Technician Diploma, (9 cr)						
Automotive Technician Diploma, (3 cr)						
CNC Machinist Diploma (0 cr)						
Electronic Engineering Diploma						
Computer Servicing/ Network Technician Emphasis (12 cr)						
Electronic Control Technician Emphasis (12 cr)	1 - 10	0 - 12	MNTC General Education courses	1 - 10	0 - 12	
Special Electronics Technician Emphasis (12 cr)						
Golf Course Grounds Management Diploma, (10 cr)						
Landscape Technology Diploma, (10 cr)						
Mechanical CAD Drafting & Design – CAD Drafter Diploma, (7 cr)						
MnTC/General Education Total		0 - 12				

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. MSUM will accept other MnTC credits within the Diploma and will transfer the same number of credits and goal areas Anoka Technical College awards.
 ENGL 1105 Composition I (4 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1, 2.
 SPCH 1120 Public Speaking (3 cr) is equivalent to MSUM COMM 100, Goal Area 1.
 BIOL 1106 Intro to Biology (4 cr) transfers as Goal Area 2, 3.
 NSCI 1020 Plant Science (3 cr) transfers as Goal Area 3,10.
 MATH 1400 Algebra & Trigonometry (5 cr) transfers as Goal Area 4.

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

MATH 1600 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 MATH 1650 College Trigonometry (3 cr) transfers as Goal Area 4
 MATH 1550 Intro to Statistics (4 cr) is equivalent to MSUM MATH 234 Probability & Statistics, Goal Area 4.
 PSYC 1505 General Psychology (4 cr) is equivalent to MSUM PSY 113 General Psychology, Goal Area 5.
 SOSC 1010 Intro to Sociology (4 cr) is equivalent to MSUM SOC 110 Intro to Sociology, Goal Areas 5, 7.
 COM 1100 Prof/ Personal Communications transfers as MnTC Goal Area 1.

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			
Architecture and Construction Technician Diploma, (45 cr)			
Automotive Technician Diploma*, (55 cr)			
CNC Machinist Diploma (48 cr)			
Electronic Engineering Diploma			
Computer Servicing/ Network Technician Emphasis (57 cr)		Technical Credits as prescribed in the program	30
Electronic Control Technician Emphasis (57 cr)			
Special Electronics Technician Emphasis (57 cr)			
Golf Course Grounds Management Diploma*, (52 - 55 cr)		Additional credits up to 18 will be applied as unrestricted elective credits**	Up to 18
Landscape Technology Diploma*, (50 - 53 cr)			
Mechanical CAD Drafting & Design – CAD Drafter Diploma, (46 cr)			
MACH 1271 Math for Machinist II (2), MATH 1070 Technical Mathematics I (5), MATH 1080 Technical Mathematics II (2), TURF 1320 Spanish for the Workplace (3)		Not Applicable	0
Major, Emphasis, Unrestricted Electives Total	45 - 57	Total College Credits Applied (sum of sections A and B)	48 - 70

Special Notes: *No more than 4 credits for internship or occupational experience will transfer. ** 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
Gen Ed/ LASC goal areas and credits*	30 - 42
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
Total Remaining University Credits²	66 -

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)

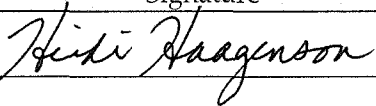
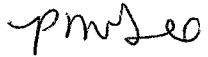
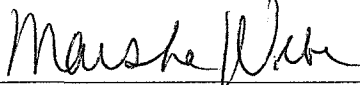

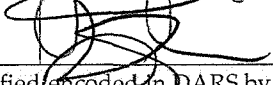
** Number of elective credit needed will bring the total to 120 for the degree.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	0 - 12		
Major, Emphasis, Unrestricted Electives or Other	45 - 57		
Total College Credits	50 - 72	Total College Credits Applied	48 - 70
		Remaining credit to be taken at the university (receiving institution)	66 - 78
		Total Program Credits	123 - 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	Heidi Haagenon		10/1/15
Title			
University	Name	Signature	Date
Department Chairperson	Pam McGee		10/15/15
Academic Dean	Dr. Marsha Weber		11-5-15
Chief Academic Officer	Dr. Joseph Bessie		11/9/15
DARS Encoder	Tara Spletstoser		1/2/16

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