

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

**ALEXANDRIA TECHNICAL AND COMMUNITY  
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 ALEXANDRIA TECHNICAL AND COMMUNITY 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:

**Computer & Voice Networking AAS 11.1003**

**Diesel Mechanics AAS 47.060500**

**Mechanical Drafting, Design & Engineering Technology AAS 15.130602**

**Mechatronics AAS 15.061300**

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 63 – 67 credits from the sending program. A total of 59 - 63 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 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 02/01/2020 (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

	<b>College (sending)</b>	<b>University (receiving)</b>
Institution	ALEXANDRIA TECHNICAL AND COMMUNITY COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Computer & Voice Networking 11.1003 (66 credits) Diesel Mechanics 47.060500 (75 credits) Mechanical Drafting, Design & Engineering Technology 15.130602 (72 credits) Mechatronics 15.061300 (72 credits)	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)		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 Requirements						
Students must select from at least three (3) of the (10) goal areas of the MNTC						

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

Computer & Voice Networking (15 cr) Diesel Mechanics (15 cr) Mechanical Drafting, Design & Engineering Technology (19 cr) Mechatronics (15 cr)		MnTC General Education courses	1 - 10	15 - 19	
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<b>MnTC/General Education Total</b>		15 - 19			
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**Special Notes:** MSUM will accept other MnTC credits and will transfer the same number of credits and goal areas as ATCC awards. Students should work with their advisor at ATCC and MSUM to choose the best general education courses to take at ATCC.

ECON 1430 Intro to Microeconomics (3 cr) is equivalent to MSUM ECON 202 , Principles of Economics I: Micro, Goal Area 5.  
 COMM 1415 Public Speaking (3 cr) is equivalent to MSUM COMM 100 Speech Communication MnTC Goal Area 1  
 ENGL 1410 Composition I (3 cr) is equivalent to MSUM ENGL 101English Composition I, Goal Area 1.  
 ENGL 1460 Technical Writing (3 cr) transfers as Goal Area 1 & 2  
 PHYS 1407/1408 College Physics I/ Lab (4 cr) is equivalent to MSUM PHYS 160 Goal Area 3  
 MATH 1420 College Algebra (3 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.  
 MATH 1445 Intro to Statistics (3 cr) is equivalent to MSUM MATH 234 Intro to Probability & Statistics, Goal Area 4.  
 PSYC 1445 General Psychology (3 cr) is equivalent to MSUM PSY 113 General Psychology, Goal Area 5.  
 PHIL 1410 Technology Ethics (3 cr) is equivalent to MSUM PHIL 316 Ethics in the Information Age, Goal 9

**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					
Computer & Voice Networking (50 cr) ♦Diesel Mechanics (57 cr) ♦Mechanical Drafting, Design & Engineering Technology (51 cr) Mechatronics (54 cr)		Technical Credits as prescribed in the program	30		
		Additional credits up to 18 will be applied as unrestricted elective credits	Up to 18		
COMM 1439 JobSeeking/ Keeping Skills (1), COMM 1440 Communicating for Results (2), MATH 1450 Technical Math (3), MATH 1455 Applied Technical Mathematics (2)		Not Applicable	0		
<b>Major, Emphasis, Unrestricted Electives Total</b>	51 - 60	<b>Total College Credits Applied (sum of sections A and B)</b>	63 - 67		

**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	23 - 27
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
<b>Total Remaining University Credits<sup>2</sup></b>	<b>59 - 63</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 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.**

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)

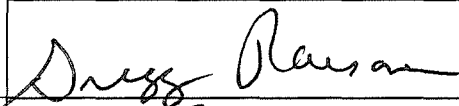

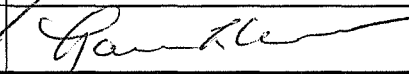
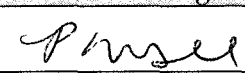
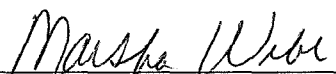
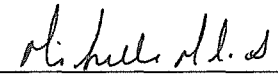
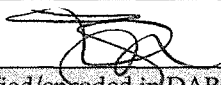
MATH 234 Introduction to Probability and Statistics (3)

\*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	
<b>MnTC/General Education</b>	15 - 19		
<b>Major, Emphasis, Unrestricted Electives or Other</b>	51 - 60		
<b>Total College Credits</b>	66 - 75	<b>Total College Credits Applied</b>	63 - 67
		<b>Remaining credit to be taken at the university (receiving institution)</b>	59 - 63
		<b>Total Program Credits</b>	126
<b>Special Notes, if any:</b>			

<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.

Two-Year College	Name	Signature	Date
Senior Dean of Academic Affairs & Students	Gregg Raisanen		3/10/15
Vice President of Academic and Student Affairs	Dr. Jan Doebbert		3/12/2015
President	Dr. Laura Urban		3-12-15
University	Name	Signature	Date
Department Chairperson	Pam McGee		3-23-15
Academic Dean	Dr. Marsha Weber		3-25-15
Chief Academic Officer	Dr. Anne Blackhurst		4/1/15
DARS Encoder	Tara Spletstoser		9/28/15
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			

7/22/2011

March, 2015