

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

**ROCHESTER COMMUNITY AND 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 **ROCHESTER COMMUNITY AND 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:

Building Utilities Mechanic AAS 46.040101

CAD (Computer Aided Drafting) Technology AAS 15.130200

Health Information Technology AAS 51.070700

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 59 – 64 credits from the sending program. A total of 61 - 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 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 **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

	College (sending)	University (receiving)
Institution	ROCHESTER COMMUNITY AND TECHNICAL COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Building Utilities Mechanic AAS 46.040101 (60 cr) CAD (Computer Aided Drafting) Technology AAS 15.130200 (72 cr) Health Information Technology AAS 51.070700 (64 cr)	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) ¹	Credits	course prefix, number and name	Goal(s) ¹	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 MNTE						

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

Building Utilities Mechanic AAS (15 cr)	1 - 10	15 - 17	MnTC General Education courses	1 - 10	15 - 17
CAD (Computer Aided Drafting) Technology AAS (16 cr)					
Health Information Technology AAS (17 cr)					
MnTC/General Education Total			15 - 17		

Special Notes: MSUM will accept other MnTC credits and will transfer the same number of credits and goal areas as RCTC awards. Students should work with their advisor at ATCC and MSUM to choose the best general education courses to take at RCTC.

ECON 2214 Prin of Econ; Microeconomics (3 cr) is equivalent to MSUM ECON 202 , Principles of Economics I: Micro, Goal Area 5.
 COMM 1114 Fundamentals of Public Speaking (3 cr) is equivalent to MSUM COMM 100 Speech Communication MnTC Goal Area 1
 ENGL 1117 Reading & Writing Critically I (4 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1.
 CHEM 1117 General, Organic & Biological Chem I (4 cr) is equivalent to CHEM 110/110L Goal Area 2, 3
 PHYS 1117 Intro to Physics I (4 cr) is equivalent to MSUM PHY 160/160L Goal Area 3
 MATH 1115 College Algebra (3 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 PSYC 2618 General Psychology (3 cr) is equivalent to MSUM PSY 113 General Psychology, Goal Area 5, 9.
 SOC 1614 Intro to Sociology (3 cr) is equivalent to MSUM SOC 110 Intro to Sociology, Goal 5, 7.

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		Technical Credits as prescribed in the program	30
Building Utilities Mechanic AAS (54 cr)		Additional credits up to 18 will be applied as unrestricted elective credits	Up to 18
CAD (Computer Aided Drafting) Technology AAS (56 cr)			
Health Information Technology AAS (42 cr)			
BTEC 2870 Employment Strategies (1), BTEC 2350 Microcomputer Business Applications (3), BTEC 2450 PowerPoint (1), BTEC 2355 Microcomputer Applications w PowerPoint (4)		Not Applicable	0
Major, Emphasis, Unrestricted Electives Total	47 - 56	Total College Credits Applied (sum of sections A and B)	59 - 64

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	25 - 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
Total Remaining University Credits²	61 - 63

Special Notes, if any: The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at NDCS (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	15 - 17		
Major, Emphasis, Unrestricted Electives or Other	47 - 56		
Total College Credits	60 - 72	Total College Credits Applied	59 - 64
		Remaining credit to be taken at the university (receiving institution)	61 - 63
		Total Program Credits	122 - 125
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
Chief Academic Officer	Dr. Nirmala Kotagal	<i>Nirmala Kotagal</i>	6-19-15
University			
Department Chairperson	Pam McGee	<i>Pam McGee</i>	7-15-15
Academic Dean	Dr. Marsha Weber	<i>Marsha Weber</i>	7-16-15
Chief Academic Officer	Dr. Michelle Malott <i>Dr. Joe Bessie</i>	<i>Joe Bessie</i>	7/20/15
DARS Encoder	Tara Spletstoser	<i>Tara Spletstoser</i>	2/9/16
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			