

MINNESOTA STATE COLLEGES AND  
UNIVERSITIES\*  
ARTICULATION AGREEMENT  
BETWEEN

Minnesota State Community & 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 **Minnesota State Community & 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

**Information Technology AS, 60 credits**

(hereinafter sending programs), 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 **60 credits** from the sending program. A total of **60 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 **08/26/2013** and shall remain in effect until the end date of **08/26/2018** 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 **02/26/2018** (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	Minnesota State Community & Technical College	Minnesota State University Moorhead
Program name/ Award Type (e.g., AS)/ CIP code (8-digit)	Information Technology AS, 60 credits	Operations Management, BS, 120 credits, 52.020500
Award Type (e.g., AS)	AS	BS
Credit Length	60	120
CIP code (6-digit)	11.010301	52.020500
Describe program admission requirements (if any)		AS 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)			MSUM 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
(The following courses are requirements of the BS degree, but may not be required of the diploma or associate's programs. Students are encouraged to take these courses within their AS, AAS, or Diploma program.)						
Minnesota Transfer Curriculum-General Education						
General Education Requirement*	1-10	30	MNTC General Education courses	1-10	30	Equiv Or Sub
<b>MnTC/General Education Total</b>		30				

**Special Notes, if any: \*Students should work with their advisor at Minnesota State Community & Technical College and also MSU Moorhead to choose best general education courses to take at M- State. MSUM will accept**

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

other MnTC credits within the AS degree and will transfer the same number of credits and goal areas MSCTC awards.

**\*\* If students takes equivalencies of these courses at Minnesota State Community & Technical College, fewer MNTC credits will be required in MSU – Moorhead's program:**

CHEM 1101 – General Organic Chemistry I is equivalent to MSUM CHEM 150 and 150L General Chemistry (Goal 3)

ECON 2200 - Principles of Microeconomics is equivalent to MSUM ECON 202 Principles of Economics I: Micro (Goal 5)

MATH 1111 – College Algebra is equivalent to MSUM MATH 127 College Algebra (Goal 4)

MATH 1105 – Intro to Prob & Statistics is equivalent to MSUM MATH 234 Introduction to Probability and Statistics (Goal 4)

PHYS 1201 – Fundamentals of Physics I is equivalent to MSUM PHYS 160 and 160L College Physics I (Goal 3)

### 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				
CPTR 1106 Microcomputer Databases	3	Technical Credits as prescribed in the program	30	
CPTR 1108 CISCO 1	3			
CPTR 1122 Microcomputer Maintenance	3			
CPTR 1138 Information Systems	3			
CPTR 1148 Microcomputer Operating System	3			
CPTR 1170 Web Engineering I	3			
CPTR 2224 Linux 1	3			
CPTR 2236 Network Security	3			
CPTR 2242 Java Programming	3			
CPTR 2272 Network Operating Systems	3			
<b>Major, Emphasis, Unrestricted Electives Total</b>	<b>30</b>	<b>Total College Credits Applied (sum of sections A and B)</b>	<b>60</b>	

### SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	ACCT 230 Principles of Accounting I (3)	3
	ENGL 387 Technical Report Writing (4)	4
	MGMT 360 Principles of Management (3)	3
	TECH 380 Methods Improvement (3)	3
	TECH 383 Cost Analysis (3)	3
	TECH 385 Process Leadership (3)	3
	TECH 394 Computer Applications for Technologists (4)	4
	TECH 428 Project Management (3)	3
	**TECH 469 Internship (3-12)	3 - 12
	TECH 482 Quality Planning and Implementation (3)	3
	TECH 485 Production and Inventory Management (3)	3
	TECH 493 Occupational Safety and Health (3)	3
	**Tech 490 Special Problems	3 -9
	*MNTC remaining in Gen Ed goal areas and credits	12+
	<b>Total Remaining University Credits</b>	<b>60+</b>

**Special Notes: \*The General Education courses listed below are required for the Operations Management BS degree. Equivalent courses can be taken at MSCTC. (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)

**Other suitable course exceptions to be handled by the OM faculty after enrollment**

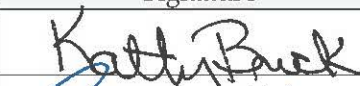

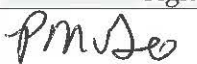
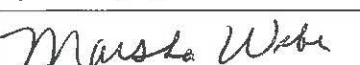
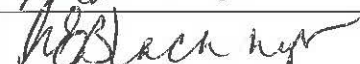

\*\* TECH 469 and TECH 490 credits will be used to bring the total MSUM credits to 120, which is required for a degree. Number of credits in TECH 469 will also be based upon how many credits a student needs to obtain the required 40 upper-division credits to receive the degree.

**SECTION D - Summary of Total Program Credits**

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	30		
Major, Emphasis, Unrestricted Electives or Other	30		
<b>Total College Credits</b>	<b>60</b>	<b>Total College Credits Applied</b>	<b>60</b>
		<b>Remaining credit to be taken at the university (receiving institution)</b>	<b>60+</b>
		<b>Total Program Credits</b>	<b>120</b>

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	Dr. Kathy Brock		9/10/13
Academic Dean	Dr. Gary Hertel		9/5/13
Title			
University	Name	Signature	Date
Department Chairperson	Pam McGee		10-9-13
Academic Dean	Dr. Marsha Weber		10-9-13
Chief Academic Officer	Dr. Anne Blackhurst		10-11-13
DARS Encoder	Tara Spletstoser		10/30/13

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