

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

**HIBBING 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 **HIBBING 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:

Diesel Mechanics AAS, 72 credits 47.030201

Industrial Systems Technology AAS, 60 credits 47.039900

(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

- A. The receiving institution will accept **58 - 63 credits** from the sending program. A total of **62 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 **03/01/2020** 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.

April, 2015

PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	HIBBING COMMUNITY COLLEGE	MINNESOTA STATE UNIVERSITY MOORHEAD
Program name	Diesel Mechanics (72 cr) 47.030201 Industrial Systems Technology (60 cr) 47.039900	Operations Management
Award Type (e.g., AS)	AAS	BS
Credit Length	60	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 Requirement*	1 - 10	15 - 16	MNTC General Education courses	1 - 10	15 - 16	
Students must select from at least three (3) of the (10) goal areas of the MNTC						
MnTC/General Education Total		15 - 16				

Special Notes, if any: *Students should work with their advisor at Hibbing and also MSU Moorhead to choose best general education courses to take at MSCTC. MSUM will accept other MnTC credits within the AAS and will transfer the

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

same number of credits and goal areas Central Lakes College awards.
 ECON 1050 Microeconomics (3 cr) is equivalent to MSUM ECON 202, Principles of Economics I: Microeconomics, Goal Area 5.
 SPCH 1040 Intro to Communication (3 cr) transfers as MnTC Goal Area 1
 ENSC 1050 Environmental Science (3 cr) transfers as MnTC Goal Area 3, 10
 ENGL 1060 Freshman Composition (3 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1.
 ENGL 1070 Report Writing (3 cr) transfers as Goal Area 1
 PHYS 1005 Physics Concepts (4 cr) transfers as Goal Area 3
 MATH 1040 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
 MATH 2010 Statistics (4 cr) is equivalent to MSUM MATH 234 Probability & Statistics, Goal Area 4.
 PSYC 1205 General Psychology is equivalent to MSUM PSY 113 General Psychology, Goal Area 5.

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 Diesel Mechanics (51 cr)* Industrial Systems Technology (42cr)		Technical Credits as prescribed in the program Additional credits up to 18 will be applied as unrestricted elective credits**	30 Up to 18
EMPL 2515 Employment Skills (1), ENGL 1070 Technical Report Writing (3), IST 1450 Industrial Technology Math Lab II (3), CAPP 1600 Emerging Information Technologies (2), DSL 1500 Orientation & Trade Knowledge (1 xr)		Not Applicable	0
Major, Emphasis, Unrestricted Electives Total	44 - 57	Total College Credits Applied (sum of sections A and B)	58 - 63

Special Notes: *No more than 4 credits for Customer Repair is allowed. ** 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*	26 - 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
Total Remaining University Credits²	62 - 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 Hibbing Community 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

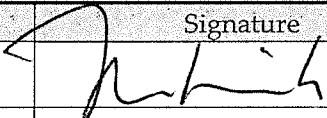
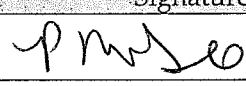
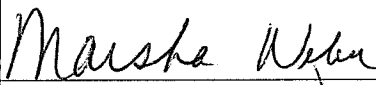
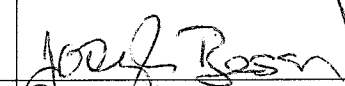

CHEM 110L Fundamentals of Chemistry Lab (1) OR
 CHEM 150 General Chemistry I (3) **and**
 CHEM 150L General Chemistry Laboratory I (1) OR
 CHEM 304 The Environment and You (3)
 PHYS 160 College Physics I (3) **and**
 PHYS 160L College Physics I Lab (1)
 ECON 202 Principles of Economics I: Micro (3)
 MATH 127 College Algebra (3)
 MATH 234 Introduction to Probability and Statistics (3)

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15 - 16		
Major, Emphasis, Unrestricted Electives or Other	44 - 57		
Total College Credits	60 - 72	Total College Credits Applied	58 - 63
		Remaining credit to be taken at the university (receiving institution)	62 - 63
		Total Program Credits	120 - 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	Michael Raich		8/20/15
Title			
University	Name	Signature	Date
Department Chairperson	Pam McGee		9-3-15
Academic Dean	Dr. Marsha Weber		9-28-15
Chief Academic Officer	Dr. Joseph Bessie		10/1/15
DARS Encoder	Tara Spletstoser		2/9/16

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