

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN

DAKOTA COUNTY 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 **DAKOTA COUNTY 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 (hereinafter sending program):

Architectural Technology AAS, 15.130300
Auto Body Collision Technology AAS, 47.060301
Automotive Technician AAS, 47. 060406
Biomedical Equipment Technology AAS, 15.040100
Civil Engineering Technology AAS, 15.020100
Electrical Construction & Maintenance Technology AAS, 46.030200
Electrical Lineworker AAS, 46.030300
Graphic Design Technology AAS, 50.040900
GM Automotive Service AAS, 47.060401
Heavy Construction Equipment Technology AAS, 47.030200
Heavy Duty Truck Technology AAS, 47.061300
Information Systems Management AAS, 51.120100
Landscape Horticulture AAS, 01.060500
Multimedia & Web Design AAS, 09.070200
Nanoscience Technology AAS, 15.061304
Networking Administration AAS, 11.090102
Photographic Imaging Technology, AAS, 50.060500
Software Development AAS, 11.020100

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, including grade requirements for courses and an overall GPA requirement.

July 6, 2011

Transfer of Credits

- A. The receiving institution will accept **56 - 71 credits** from the sending program. A total of **58 - 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 **4/01/2015** and shall remain in effect until the end date of **4/01/2020** 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 **10/01/2019** (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	Dakota County Technical College	Minnesota State University Moorhead
Program name	Architectural Technology, 15.130300 (60 credits) Auto Body Collision Technology, 47.060301 (72 credits) Automotive Technician, 47. 060406 (72 credits) Biomedical Equipment Technology, 15.040100 (70 credits) Civil Engineering Technology, 15.020100 (72 credits) Electrical Construction & Maintenance Technology, 46.030200 (81 credits) Electrical Lineworker, 46.030300 (60 credits) GM Automotive Service AAS, 47.060401 (82 credits)	Operations Management

	Graphic Design Technology AAS, 50.040900 (70 credits) Heavy Construction Equipment Technology, 47.030200 (72 credits) Heavy Duty Truck Technology, 47.061300 (72 credits) Information Systems Management, 51.120100 (69 credits) Landscape Horticulture, 01.060500 (72 credits) Multimedia & Web Design, 09.070200 (70 credits) Nanoscience Technology, 15.061304 (72 credits) Networking Administration, 11.090102 (69 credits) Photographic Imaging Technology, 50.060500 (60 credits) Software Development, 11.020100 (69 credits)	
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			MnTC General Education Courses	1 - 10	15 - 26	

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

Students must select from at least three (3) of the (10) goal areas of the MnTC Architectural Technology, (15 credits) Auto Body Collision Technology, (15 cr) Automotive Technician, (15 cr) Biomedical Equipment Technology, (21 cr) Civil Engineering Technology, (15 cr) Electrical Construction & Maintenance Technology, (15 cr) Electrical Lineworker, (20 cr) GM Automotive Service (15 cr) Graphic Design Technology (15 cr) Heavy Construction Equipment Technology, (15 cr) Heavy Duty Truck Technology, (15 cr) Information Systems Management, (15 cr) Landscape Horticulture, (15 cr) Multimedia & Web Design, (15 cr) Nanoscience Technology, (30 cr) Networking Administration, (15 cr) Photographic Imaging Technology, (15 cr) Software Development, (15 cr)					
--	--	--	--	--	--

MnTC/General Education Total	15 - 30				
-------------------------------------	---------	--	--	--	--

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

- ENGL 1150 Composition I (3 cr) is equivalent to MSUM ENGL 101 English Composition I, Goal Area 1B.
- ECON 1100 Microeconomics (3 cr) is equivalent to MSUM ECON 202 Principles of Economics: Micro, Goal Area 5.
- MATS 1300 College Algebra (4 cr) is equivalent to MSUM MATH 127 College Algebra, Goal Area 4.
- CHEM 1500 Intro to Chemistry (4 cr) is equivalent to MSUM CHEM 110/ 110L Fundamentals of Chemistry Goal Area 3.
- PHYS 1100 College Physics I (4 cr) is equivalent to MSUM PHYS 160 College Physics I & Lab Goal Area 3.
- PHYS 1200 College Physics II (4 cr) is equivalent to MSUM PHYS 161 College Physics II & Lab Goal Area 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				
Technical credits as prescribed in program Architectural Technology, (45 credits) Auto Body Collision Technology, (56 cr)** Automotive Technician, (57 cr) Biomedical Equipment Technology, (42 cr) Civil Engineering Technology, (57 cr) Electrical Construction & Maintenance Technology, (60 cr) Electrical Lineworker, (36 cr)		Technical Credits as prescribed in the program Additional credits up to 18 will be applied as unrestricted elective credits*	30 Up to 18	

GM Automotive Service (34 cr)** Graphic Design Technology (41 cr) Heavy Construction Equipment Technology, (57 cr) Heavy Duty Truck Technology, (54 cr)** Information Systems Management, (45 cr) Landscape Horticulture, (52 cr) Multimedia & Web Design, (46 cr) Nanoscience Technology, (41 cr) Networking Administration, (48 cr) Photographic Imaging Technology, (38 cr) Software Development, (48 cr)				
ASEP 1201 Dealer Work Experience I (8), ASEP 1202 Dealer Work Experience II (8), ASEP 1204 Dealer Work Experience IV (8). ASEP 1205 Dealer Work Experience V (8), ASEP 2303 Dealer Work Experience III (5) BMET 2940 BMET Field Experience (1), BMET 1122 Admin Functions (4), BMET 2110 Professional Skills (2)ELEC 1137 Construction Site Safety (1), ELEC 1138 Computer Applications for Electricians (2)MATS 1205 Math for Electricians (3), ELLW 1185 Electrical industry Search Skills (1), HEAL 1030 Emergency Care Technical Trades (3), HDTT 2230 Heavy Truck Industry Training (2), ISTC 1015 Supporting Business Applications (3), ISTC 1100 Business Communications (3), LAHT 1502 Safety & Equipment (1), LAHT 2500 Landscape Business Mgmt (4), VCOM 1001 Intro to Visual Communications (2), VCOM 1021 Intro to Photography (3), VCOM 1041 Drawing I (3), VCOM 1060 Creative Problem Solving (3), VCOM 2730 Career Research Skills (1), VCOM 2721 Portfolio for Graphic Design (2), NANO 2151 Career Planning & Industry Tours (1), VCOM 1570 Portrait Photography (2), ISTC 2120 Financial Accounting for Information Systems (3)		Not Applicable	0	
Major, Emphasis, Unrestricted Electives Total	37 - 67	Total College Credits Applied (sum of sections A and B)	49 - 71	
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. ** No more than 4 credits for an internship or on-the-job experience will be counted as technical.				

SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
Remaining MnTC/ LASC Goal Requirements	16 - 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
Electives if needed*	Up to 6
Total Remaining University Credits²	58 - 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 DCTC (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)

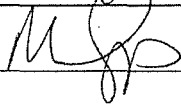
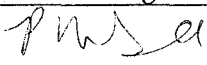
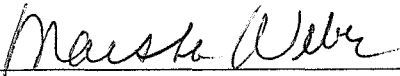
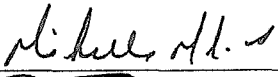

*Number of elective credits required to bring the total of credits earned to 120 varies.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15 - 30		
Major, Emphasis, Unrestricted Electives or Other	34 - 66		
Total College Credits	60 - 81	Total College Credits Applied	49 - 71
		Remaining credit to be taken at the university (receiving institution)	58 - 63
		Total Program Credits	120 - 123

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	Mike Opp		3/26/15
Title	Vice President of Academic + Student Affairs		
University	Name	Signature	Date
Department Chairperson	Pam McGee		4-9-15
Academic Dean	Dr. Marsha Weber		4-13-15
Chief Academic Officer	Dr. Michelle Malott		4/16/15
DARS Encoder	Tara Spletstoser		9/4/15

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