

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

**North Dakota State College of Science  
AND  
Bemidji State University**

\*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 **North Dakota State College of Science** (hereinafter sending institution), and **Bemidji State University** (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:

Architectural Drafting and Estimating Technology AAS (70 Cr.)  
Auto Body Repair and Refinishing Technology AAS (73 Cr.)  
Automotive Technology AAS (71 Cr.)  
Building Construction Technology AAS (75 Cr.)  
Construction Management Technology AAS (75 Cr.)  
Diesel Technology (General Diesel) AAS (73 Cr.)  
Electrical Technology (Electrical Construction) AAS (73 Cr.)  
Electrical Technology (Industrial Electrical) AAS (73 Cr.)  
Heating, Ventilation, Air-Conditioning and Refrigeration Technology AAS (73 Cr.)  
Information and Communications Technology (Information Technology Support) & (Information Systems Administrator) AAS (66 Cr.)  
Information and Communications Technology (Web Design/Web Developer) AAS (66 Cr.)  
Land Surveying and Civil Engineering Technology AAS (73 Cr.)  
Mechanical Systems AAS (73 Cr.)  
Powersports Technology AAS (70 Cr.)  
Precision Machining Technology AAS (71 Cr.)  
Robotics, automation and Mechatronics Technology AAS (71 Cr.)  
Technical Studies (Technical Studies Track) AAS (65 Cr.)  
Welding Technology AAS (69 Cr.)

(hereinafter sending program), and the receiving institution has established a **Applied Engineering BAS** (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.

**Transfer of Credits**

- A. The receiving institution will accept 65-75 credits from the sending program. A total of 64-79 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 5/22/2018 and shall remain in effect until the end date of 5/21/2023 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 11/21/2022 (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.

<b>PROGRAM ARTICULATION TABLE</b>		
<b>Check if the sending program ___ or receiving program ___ is new.</b>		
	<b>College (sending)</b>	<b>University (receiving)</b>
Institution	College	Bemidji State University
Program name	Architectural Drafting and Estimating Technology AAS (70 Cr.) 15.0101 Auto Body Repair and Refinishing Technology AAS (73 Cr.) 47.0603 Automotive Technology AAS (71 Cr.) 47.0604 Building Construction Technology AAS (75 Cr.) 46.0415 Construction Management Technology AAS (75 Cr.) 15.1001 Diesel Technology (General Diesel) AAS (73 Cr.) 47.0605 Electrical Technology (Electrical Construction) AAS (73 Cr.) 15.0399 Electrical Technology (Industrial Electrical) AAS (73 Cr.) 15.0399 Heating, Ventilation, Air-Conditioning and Refrigeration Technology AAS (73 Cr.) 15.0501 Information and Communications Technology (Information Technology Support) 11.1006 (Information Systems Administrator) AAS (66 Cr.) 11.0901 Information and Communications Technology (Web Design/Web Developer) AAS (66 Cr.) 11.0801 Land Surveying and Civil Engineering Technology AAS (73 Cr.) 15.0201 Mechanical Systems AAS (73 Cr.) 47.0201 Powersports Technology AAS (70 Cr.) 47.0606 Precision Machining Technology AAS (71 Cr.) 48.0501 Robotics, automation and Mechatronics Technology AAS (71 Cr.) 15.0613 Technical Studies (Technical Studies Track) AAS (65 Cr.) Welding Technology AAS (69 Cr.) 48.0508	Applied Engineering
Award Type (e.g., AS)	AAS	BAS
Credit Length	65-75	120
CIP code (6-digit)	See Above	15.0000
Describe program admission requirements (if any)		
<b>Instructions</b>		
<ul style="list-style-type: none"> <li>• List all required courses in both academic programs.</li> <li>• MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.</li> <li>• Do not indicate a goal area for general education courses that are not part of the MnTC.</li> </ul>		

- 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
<b>Minnesota Transfer Curriculum-General Education</b>						
<b>Varies by Program, Equivalencies Below</b>						
Architectural Drafting and Estimating Technology AAS (9-13 Cr.) Auto Body Repair and Refinishing Technology AAS (3-18 Cr.) Automotive Technology AAS (3-8 Cr.) Building Construction Technology AAS (9-13 Cr.) Construction Management Technology AAS (9-12 Cr.) Diesel Technology (General Diesel) AAS (3-8 Cr.) Electrical Technology, Electrical Construction AAS (6-11 Cr.) Electrical Technology (Industrial Electrical) AAS (6-11 Cr.) Heating, Ventilation, Air-Conditioning and Refrigeration Technology AAS (3-10 Cr.) Information and Communications Technology (Information Technology Support) & (Information Systems Administrator) AAS (6-16 Cr.) Information and Communications Technology (Web Design/Web Developer) AAS (6-11 Cr.) Land Surveying and Civil Engineering Technology AAS (6-13 Cr.) Mechanical Systems AAS (3-11 Cr.) Powersports Technology AAS (3-8 Cr.) Precision Machining Technology AAS (6-13 Cr.) Robotics, automation and Mechatronics Technology AAS (6-10 Cr.) Technical Studies (Technical Studies) AAS (3-18 Cr.) Welding Technology AAS (6-13 Cr.)	1-10	3-18	MnTC General Education Courses	1-10	3-18	
<b>BSU-NDSCS Equivalent Courses</b>						
COMM 110 Fundamentals of Public Speaking	1	(3)	COMM 1100	1	(3)	Equiv
ECON 201 Principles of Microeconomics	5	(3)	ECON 2000	5	(3)	Equiv
ECON 202 Principles of Macroeconomics	5	(3)	ECON 2100	5	(3)	Equiv
ENGL 110 College Composition I	1	(3)	ENGL 1151	1	(3)	Equiv
ENGL 120 College Composition II	1	(3)	ENGL 2152	1	(3)	Equiv
PHIL 210 Ethics	6, 9	(3)	PHIL 2220 Ethics	6, 9	(3)	Equiv
MATH 132 Technical Algebra I (2 Cr.) and MATH 134 Technical Algebra II (2 Cr.) or MATH 136 Technical Trigonometry (2 Cr.)	4	(4)	MATH 1100 Mathematical Reasoning (3 Cr.)	3	(4)	Equiv
<b>MnTC/General Education Total</b>		3-18				

**Special Notes, if any:** Remaining liberal education requirements for a bachelor's degree may be completed at the college or university. When provided the opportunity to select from a variety of liberal education courses, NDSCS students should choose

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

courses with direct equivalencies to maximize transfer options and efficiency. Students planning to transfer to BSU, should seek the help of a NDSCS/BSU transfer specialist as early as possible.

**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				
<p><b>North Dakota State College of Science Programs</b>            Architectural Drafting and Estimating Technology AAS (57-61 Cr.)            Auto Body Repair and Refinishing Technology AAS (55-70 Cr.)            Automotive Technology AAS (63-68 Cr.)            Building Construction Technology AAS (62-66 Cr.)            Construction Management Technology AAS (63-66 Cr.)            Diesel Technology (General Diesel) AAS (65-70 Cr.)            Electrical Technology (Electrical Construction) AAS (62-67 Cr.)            Electrical Technology (Industrial Electrical) AAS (62-67 Cr.)            Heating, Ventilation, Air-Conditioning and Refrigeration Technology AAS (63-70 Cr.)            Information and Communications Technology, Information Technology Support/Information Systems Administrator AAS (50-60 Cr.)            Information and Communications Technology (Web Design/Web Developer) AAS (55-60 Cr.)            Land Surveying and Civil Engineering Technology AAS (60-67 Cr.)            Mechanical Systems AAS (62-70 Cr.)            Powersports Technology AAS (62-67 Cr.)            Precision Machining Technology AAS (58-65 Cr.)            Robotics, automation and Mechatronics Technology AAS (61-65 Cr.)            Technical Studies (Technical Studies Track) AAS (47-62 Cr.)            Welding Technology AAS (56-63 Cr.)</p>		TRANSFER PROFESSIONAL/TECHNICAL BLOCK	38	Sub
<p>Restricted elective credits - list courses (if none enter 0)</p>		Additional credits will be applied as General Elective Credits.	9-32	
<p>Unrestricted elective credits (if none enter 0)</p>		College's unrestricted elective credits accepted in transfer (if none enter 0)		
<p><b>Major, Emphasis, Unrestricted Electives Total</b></p>		<b>Total College Credits Applied (sum of sections A and B)</b>	65-75	

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

course prefix, number and name	Credits
Remaining Liberal Education/MNTC Requirements	24-39
<b>TADT COMMON CORE 15 credits</b>	
TADT 3111 Project Management Methodology	3
TADT 3267 Economic and Cost Analysis	3
TADT 4385 Sustainability and Emerging Technologies	3
TADT 4873 Emphasis Related Capstone	3
TADT 4878 Quality Assurance	3
<b>APPLIED ENGINEERING CORE 21 credits</b>	
TADT 3100 Principles of Professional Development	3
TADT 3217 Material Science and Metallurgy	3
TADT 3537 Industrial Design and Innovation	3

	TADT 3700 Operations Planning and Control	3
	TADT 3887 Safety and Risk Management	3
	TADT 4867 Lean Principles and Practices	3
	TADT 4879 Services Process/Improvement	3
	<b>UPPER DIVISION TADT ELECTIVES</b>	<b>4</b>
	University unrestricted elective credits not counted elsewhere (if none enter 0)	
	<b>Total Remaining University Credits<sup>2</sup></b>	<b>64-79</b>
<b>Special Notes, if any:</b>		

<b>SECTION D - Summary of Total Program Credits</b>			
<b>College (sending) Credits</b>		<b>University (receiving) Requirements</b>	
MnTC/General Education	3-18		
Major, Emphasis, Unrestricted Electives or Other	50-70		
<b>Total College Credits</b>	<b>65-75</b>	<b>Total College Credits Applied</b>	<b>65-75</b>
		<b>Remaining credit to be taken at the university (receiving institution)</b>	<b>64-79</b>
		<b>Total Program Credits</b>	<b>129-154</b>
<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.

College	Name	Signature	Date
Chief Academic Officer	<i>Harvey Link</i>	<i>Harvey Link</i>	<i>9/10/18</i>
<i>VP AA</i>			
Title			
University	Name	Signature	Date
Chief Academic Officer	<i>G. Anthony Pfeffer</i>	<i>G. Anthony Pfeffer</i>	<i>8/14/18</i>
<i>Provost + VPASA</i>			
Title			
DARS Encoder	<i>PW Hodgson</i>	<i>PW Hodgson</i>	<i>8.6.18</i>
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			