

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
TRANSFER AGREEMENT
BETWEEN

Hennepin Technical College
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 **Hennepin Technical College, 9000 Brooklyn Blvd, Brooklyn Park, MN 55445**, (hereinafter sending institution), and **Bemidji State University 1500 Birchmont Drive NE, Bemidji, MN 56601**, (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 an **Engineering CAD Technology AAS** (hereinafter sending program), and the receiving institution has established a **Project Management BS (Product Development Emphasis)** (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 **72** credits from the sending program. A total of **77-80 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 **11/01/2018** and shall remain in effect until **11/01/2023** 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 **05/01/2023** (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.



February 2, 2017

PROGRAM ARTICULATION TABLE

Check if the sending program ____ or receiving program ____ is new.

	College (sending)	University (receiving)
Institution	Hennepin Technical College	Bemidji State University
Program name	Engineering CAD Technology	Project Management (Product Development)
Award Type (e.g., AS)	AAS	BS
Credit Length	72	120
CIP code (6-digit)	15.1302	52.0211
Describe program admission requirements (if any)		

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						
ENGL2121 Writing and Research (4 Cr) or ENGL2125 Technical Writing (3 Cr)	1	3-4	ENGL 1151 Composition (4 Cr) or ENGL 2125 Argument and Exposition (3 Cr)	1	3-4	Equiv
MATH2050 Applications of Quantitative Reasoning (3 Cr) or MATH2200 College Algebra (4 Cr)	4	3-4	MnTC Equivalent Course	4	3-4	Equiv
PHIL2100 Critical Thinking or PHYS2001 Introductory Physics	2 or 2, 3	3	MnTC Equivalent Course	2 or 2, 3	3	Equiv
MnTC Course at the 2000 Level	1-10	6	MnTC Equivalent Course	1-10	6	Equiv
MnTC/General Education Total		15				

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

Special Notes, if any: MnTC may be completed at the college or university.

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				
ENG1011 Engineering Drawing	3	General Elective Credit	3	
ENG1021 Working Drawings	3	General Elective Credit	3	
ENG1041 Geometric Dimensioning & Tolerancing	3	General Elective Credit	3	
ENG1100 AutoCAD	4	General Elective Credit	4	
ENG1160 Inventor	4	General Elective Credit	4	
ENG1201 Industrial CAD Project	3	TADT 1450 Introduction to Product Development	3	
ENG1250 SolidWorks I	4	TADT 1460 2D Graphics And Laser Etching	3	Equiv
ENG1255 SolidWorks II	4	General Elective Credit	4	
ENG2011 Special Fields of Drafting	3	General Elective Credit	3	
ENG2075 Engineering Design Project	3	ACCT 1101 Principles of Accounting I	3	Sub
ENG2100 Basic Creo Parametric (Pro/ENGINEER)	4	TADT 2461 Parametric 3D Modeling	3	Equiv
ENG2110 Advanced Creo Parametric (Pro/ENGINEER)	4	General Elective Credit	4	
MACH1056 Blueprint Reading I	3	TADT 3970 Internship (1 Cr) and General elective Credits (2 Cr)	3	
METS1000 Computers in Manufacturing	3	BUAD 2280 Computer Business Applications	3	Sub
METS1020 Industrial Manufacturing Processes	3	General Elective Credit	3	
METS2000 Engineering Design Principles	3	TADT 2877 Engineering Problem Solving	3	Equiv
Choose 3 Credits from Technical Electives ARET1200 Introduction to Robotics (2 Cr) ENG1050 Additive Manufacturing (3 Cr) ENG1900 Specialized Lab (1-4 Cr) ENG2050 AutoCAD Upgrade Training (1 Cr) ENG2200 Engineering CAD Technology Internship (3-4 Cr) FLPW1101 Fluid Power Technology I (3 Cr) MACH1205 Machine Tool Technology (3 Cr) METS2100 Statics and Strength of Materials (3 Cr)	3	* TADT 1210 Intro. to Manufacturing Processes I Or General Elective Credits	3	Equiv
Major, Emphasis, Unrestricted Electives Total	57	Total College Credits Applied (sum of sections A and B)	72	

Special Notes: Students not taking ENG1050 Additive Manufacturing at the college will need to take TADT 1210 Intro to Manufacturing Processes I at the university.

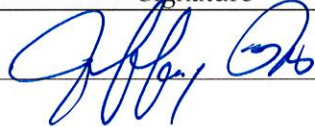

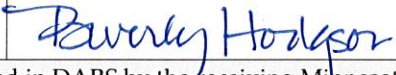
SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
Credits to complete MnTC Requirements	27
TADT Common Core	
TADT 1111 Introduction to Project Management	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
TADT 4970 Internship	2
PROJECT MANAGEMENT CORE COURSES	
BUAD 2220 Legal Environment	3
TADT 3112 Leadership in a Team Environment	3
TADT 3885 Technical Sales, Service and Training	3
TADT 4875 Facilities Management	3

	TADT 4893 Applied Project Management	3
	PRODUCT DEVELOPMENT EMPHASIS	
	TADT 1210 Introduction to Manufacturing Processes I	0-3
	TADT 1220 Introduction to Manufacturing Processes II	3
	TADT 2450 Product Finishing & Aesthetics	3
	TADT 3462 Computer Controlled Machining	3
	TADT 3470 Concept to Prototype Model	3
	TADT 3537 Industrial Design/Innovation	3
	TADT 4589 Advanced Prototype Project	3
	University unrestricted elective credits not counted elsewhere (if none enter 0)	
Total Remaining University Credits²		77-80
Special Notes, if any:		

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15-17		
Major, Emphasis, Unrestricted Electives or Other	57		
Total College Credits	72	Total College Credits Applied	72
		Remaining credit to be taken at the university (receiving institution)	77-80
		Total Program Credits	149-152
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	Jeffrey Parks		3-22-19
Provost			
Title			
University	Name	Signature	Date
Chief Academic Officer	Dr. Anthony Pfeffer		1/29/19
Provost			
Title			
DARS Encoder	Beverly Hodgson		1.17.19
Date when equivalencies were verified/encoded in DARS by the receiving Minnesota State institution.			