

MAR 25 2019

BEMIDJI STATE UNIVERSITY

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
TRANSFER AGREEMENT
BETWEEN

Century 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 **Century College, 3300 Century Ave N White Bear Lake, MN 55110** (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 a **Additive and Digital Manufacturing AAS** (hereinafter sending program), and the receiving institution has established a **Engineering Technology 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.

Transfer of Credits

- A. The receiving institution will accept **60 credits** from the sending program. A total of **65 credits** remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Transfer 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 Transfer Agreement is effective on **12/12/2018** and shall remain in effect until **12/12/2023** 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 Transfer Agreement will be reviewed by both parties beginning **06/12/2023** (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.

PROGRAM TRANSFER TABLE

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

	College (sending)	University (receiving)
Institution	Century College	Bemidji State University
Program name	Additive and Digital Manufacturing	Engineering Technology
Award Type (e.g., AS)	AAS	BS
Credit Length	60	120
CIP code (6-digit)	15.0000	15.0612
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.
- Equip/Sub/Wav column: If a course is to be encoded as equivalent, enter Equip. 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	Equip Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1020 - Composition I or ENGL 1021 Composition I	1	4	ENGL 1151 Composition	1	4	Equip
COMM 1021 Fundamentals of Public Speaking or COMM 1031 Interpersonal Communication or	1,9 1,7		COMM 1100 Public Speaking COMM 1090 Interpersonal Communication	1,9 1,7		
COMM 1041 Small Group Communication or	1,9	3	COMM 2150 Small Group Communication	1,9	3	Equip
COMM 1051 Intercultural Communication	1,8		SOWK 2110 Intercultural Communication	1,8		
PHYS 1020 - Physics Concepts	3	4	MnTC Goal 3 Equivalent Course	3	4	Equip
MnTC Goal 5 Equivalent Course	5	3	MnTC Goal 5 Equivalent Course	5	3	Equip
MnTC Goal 6 Equivalent Course	6	3	MnTC Goal 6 Equivalent Course	6	3	Equip
MnTC/General Education Total		17				

Special Notes, if any: Students may complete MnTC requirements at the college or university.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

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

(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				
ECAD 2053 Introduction to SolidWorks	3	TADD 3440 3D Design Software (4 Cr)	3	Equiv
ECAD 2075 Advanced SolidWorks	3	TADT 2461 Parametric 3D Modeling	3	Equiv
ECAD 1025 How to Make Almost Anything	3	TADT 1460 2D Graphics And Laser Etching	3	Equiv
ENGR 1020 Introduction to Engineering	4	TADT 1464 Engineering Technology Project I (3 Cr)	4	Equiv
FACM 1001 Safety Awareness	2	TADT 2100 Impact Of Technology	2	Equiv
CSCI 1060 Introduction to Programming with Python	3	General Elective Credits	3	
RNEW 1507 Digital Electronics	3	TADT 2465 Engineering Technology Project II	3	Equiv
RNEW 2543 Programmable Logic Control Fundamentals	3	TADT 3277 Programmable Logic Controllers	3	Equiv
ADM 2010 Additive Manufacturing Processes (3 Cr) and ADM 2020 Robotics and Automated Systems Design (3 Cr) and ADM 2040 Advanced Additive Concepts (3 Cr)	9	TADT 1220 Introduction to Manufacturing Processes II (3 credits) and General Elective Credits (6 Cr.)	9	Equiv
ADM 2080 Enterprise System Integration Capstone	2	General Elective Credits	2	
Select 8 credits from the courses below	8	Course Equivalencies as Shown below	8	
ECAD 1060 Materials & Manufacturing Process (3 CR)		General Elective Credits (3 Cr)		
CMAE 1522 Quality Practices (2 Cr)		General Elective Credits (2 Cr)		
ADM 1060 Medical Manufacturing (3 Cr)		General Elective Credits (3 Cr)		
ADM 2050 Lean Manufacturing (3 Cr)		General Elective Credits (3 Cr)		
ECAD 1023 Blueprint Reading For Renewable Energy (3 Cr)		TADT 3250 Print Reading & Project Doc. (3 Cr)		Equiv
ENGL 1025 Technical and Professional Writing (3 Cr)		ENGL 2150 Technical Writing (3 Cr)		Equiv
ADM 2780 Internship in ADM (1-6 Cr)		TADT 3970 Internship (1-2 Cr.)		Equiv
Unrestricted elective credits (if none enter 0)		College's unrestricted elective credits accepted in transfer (if none enter 0)		
Major, Emphasis, Unrestricted Electives Total	43	Total College Credits Applied (sum of sections A and B)	60	

Special Notes: TADT 3277 Programmable Logic Controllers, TADD 3440 3D Design Software, TADT 3250 Print Reading and Project Documentation, and TADT 3970 Internship count toward the university's upper division credit requirement. Students not taking ECAD 1023 Blueprint Reading for Renewable Energy and ADM 2780 Internship in ADM at the college will need to take TADT 3250 Print Reading and Documentation and TADT 3970 Internship at the university.

SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
Credits to complete MnTC, and upper division credit Requirements	14
TADT Common Core – 17 Credits	
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
Engineering Technology Core – 34 Credits	
MATH 1470 Precalculus	5
PHYS 1101 General Physics I	4
PHYS 1102 General Physics II	4
TADT 1210 Introduction to Manufacturing Processes I	3
TADT 2217 Strength of Materials	3

	TADT 2877 Engineering Problem Solving	3
	TADT 3217 Materials Science and Metallurgy	3
	TADT 3462 Computer Controlled Machining	3
	TADT 3537 Industrial Design/Innovation	3
	TADT 4778 Advanced Topics in Technology	3
	Required Foundation Courses, Select 7 Credits	0-7
	TADT 3250 Print Reading and Project Documentation (3 Cr)	
	TADD 3440 3D Design Software (4 Cr)	
	TADD 3450 History of Modern Design (4 Cr)	
	TADD 3579 Branding and Packaging (4 Cr)	
	TADT 4589 Advanced Prototype Project (3 Cr)	
	TADT 4880 Total Quality Management (3 Cr)	
	University unrestricted elective credits not counted elsewhere (if none enter 0)	
	Total Remaining University Credits²	65-72

Special Notes, if any: To complete university upper division 40 Cr. graduation requirements, some MnTC credits may need to be upper division. See your advisor for guidance.

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	17		
Major, Emphasis, Unrestricted Electives or Other	43		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	65-72
		Total Program Credits	125-132
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
Faculty	Randy Jasken		11 FEB 2019
Academic Dean	Monica Ramirez		2/28/19
Chief Academic Officer/ Interim Vice President of Academic Affairs	Jenni Swenson		2/25/19
University	Name	Signature	Date
Chief Academic Officer	Dr. Anthony Peffer		3/26/19
Provost			
Title			
DARS Encoder			2/26/19

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