

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN

Itasca Community 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 Itasca Community College (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 an **Engineering, AS** (hereinafter sending program), and the receiving institution has established an **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

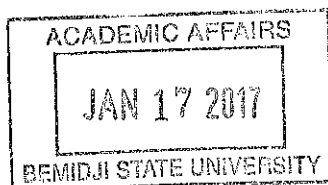
- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and 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 60 credits from the sending program. A total of 60 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 12/16/2016 and shall remain in effect until the end date of 12/15/2021 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 6/15/2021 (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 7, 2015

PROGRAM ARTICULATION TABLE

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

	College (sending)	University (receiving)
Institution	Itasca Community College	Bemidji State University
Program name	Engineering	Applied Engineering
Award Type (e.g., AS)	AS	BAS
Credit Length	60	120
CIP code (6-digit)	14.0102	15.0000
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						
CHEM 1201 General Chemistry	2,3	4	CHEM 2211 Principles of Chemistry I	2, 3	4	EQUIV
PHYS 1201 General Physics I	2,3, 10	4	PHYS 2101 Physics I	2, 3, 10	4	EQUIV
PHYS 1202 General Physics II	2,3	4	PHYS 2102 Physics II	2, 3	4	EQUIV
Choose 4 of the following 5 Math Courses MATH 1121 Pre-Calculus (4 Cr.) MATH 1122 Calculus (4 Cr.) MATH 1123 Calculus II (4 Cr.) MATH 2102 Multivariable Calculus (4 Cr.) MATH 2104 Diff Q/Linear Algebra (4 Cr.)	2, 4	16	BSU Equivalent MATH 1470 Pre-calculus (5 Cr.) MATH 2471 Calculus (5 Cr.) MATH 2472 Calculus II (5 Cr.) MATH 2480 Multivariable Calculus (4 Cr.) MNTC Goal 4	2, 4	16	
MnTC, must satisfy 2 different goal areas	1, 5-9	3	Liberal Education from the MnTC	1, 5-9	3	
MnTC/General Education Total		31				

Special Notes, if any: Remaining liberal education requirements for a bachelor's degree may be completed at the college or university.

¹ MnTC goal areas transfer to the receiving Minnesota State college/university according to the goal areas designated by the sending college/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: "Choose 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				
ENGR 1220 Intro to Engineering	3			
ENGR 1232 Engineering Design II	3			
ENGR 1233 Engineering Design III	3			
ENGR 1234 Engineering Design IV	3			
ENGR 2101 Static Mechanics	3			
Choose a minimum of 14 credits from the following BIOL 1201 General Biology (4) (Goal Area 3 & 10) CHEM 1200 STEM Chemistry (2) CHEM 1202 General Chemistry II (4) (Goal Area 3) CHEM 2201 Organic Chemistry I (5) CSCI 1205 C++ Programming (3) ENGR 1115 Digital Logic (3) ENGR 1117 Into to AutoCAD (2) ENGR 2001 Solids Modelling (3) ENGR 2102 Dynamics (3) ENGR 2103 Mech of Materials (3) ENGR 2104 Fluid Mechanics (3) ENGR 2105 Thermodynamics (3) ENGR 2106 Circuits I (4) ENGR 2107 Circuits II (4) MATH 2106 Probability and Statistics (3) MATH 2104 Diff Q/ Linear Algebra (4) PHYS 2203 General Physics III (4)	Min. 14	Program Degree Block Transfer Credit to Applied Engineering	29	Sub
Restricted elective credits - list courses (if none enter 0)				
Unrestricted elective credits (if none enter 0)		College's unrestricted elective credits accepted in transfer (if none enter 0)		
Major, Emphasis, Unrestricted Electives Total	29	Total College Credits Applied (sum of sections A and B)	60	

Special Notes: The 12 MnTC credits of General Chemistry, and Physics I & II, taken at the college also count toward the 38 required Technical Credits required for Applied Engineering degree at the University.

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	Credits to complete (42 Cr.) liberal education and/or (120 Cr.) graduation requirements. (See Note Below)	20
	TADT COMMON CORE 15 credits	
	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
	APPLIED ENGINEERING CORE 21 credits	
	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
	UPPER DIVISION TADT ELECTIVES	4
	University unrestricted elective credits not counted elsewhere (if none enter 0)	
	Total Remaining University Credits²	60

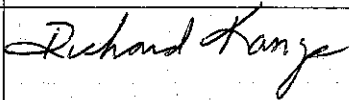

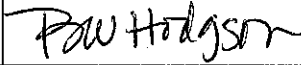
Special Notes: Students should work with their BSU advisor to develop a plan ensuring the 20 additional liberal education credits meet all goal area requirements. Some may fill multiple goal areas. If liberal education requirements are met with fewer than 22 credits, remaining credits to meet 120 credit graduation requirement, may be free electives.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	31		
Major, Emphasis, Unrestricted Electives or Other	29		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	60
		Total Program Credits	120

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			
Dean of Student and Administrative Services Title	Mr. Rick Kangas		1/30/17
University	Name	Signature	Date
Chief Academic Officer			
Provost and Vice President for Academic and Student Affairs Title	Dr. Michael Anderson		1.20.17
DARS Encoder	Beverly Hodgson		1.23.17

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