

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN

Alexandria Technical and 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 **Alexandria Technical and 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 a **Mechanical Drafting, Design & Engineering Technology AAS** (hereinafter sending program), and the receiving institution has established an **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 **72** 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 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 **02/20/2018** and shall remain in effect until the end date of **02/20/2023** 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 **08/20/2022** (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.

PROGRAM ARTICULATION TABLE

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

	College (sending)	University (receiving)
Institution	Alexandria Technical and Community College	Bemidji State University
Program name	Mechanical Drafting, Design & Engineering Technology	Engineering Technology
Award Type (e.g., AS)	AAS	BS
Credit Length	72	120
CIP code (6-digit)	15.1306	15.0612
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						
ECON 1410 Introduction to Economic Principles	5	3	MnTC Goal Areas 5	5	3	Equiv
ENGL 1460 Technical Writing	1, 2	3	ENGL 2150 Technical Writing	1, 2, 11	3	Equiv
MATH 1420 College Algebra	4	3	MATH 1170 College Algebra	4	3	Equiv
MATH 1431 Geometry	4	3	MnTC Goal Area 4	4	3	Equiv
MATH 1432 Principles of Trigonometry	4	3	MnTC Goal Area 4	4	3	Equiv
PHYS 1407 College Physics I	3	3	PHYS 1101 General Physics I	3	4	Equiv
PHYS 1408 College Physics I Lab	3	1				
MnTC/General Education Total		19				

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: "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, microbiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
COMM1440 Communicating for Results	2	TADT 2100 Impact Of Technology	2	Sub
PHYS1407 College Physics I and (Also listed under PHYS 1408 College Physics I Lab MNTC-Gen Ed)	0	PHYS 1101 General Physics I	0	Equiv
MEDR1601 Engineering Drawing I	3	TADT 1460 2D Graphics And Laser Etching	3	Equiv
MEDR1602 Engineering Drawing II	3	General Elective Credit	3	
MEDR1608 Rapid Prototype Operations (1 Cr) and MACH2612 Jig & Fixture Design (2 Cr)	3	TADT 1210 Introduction to Manufacturing Processes I	3	Equiv
MEDR1615 Computer Assisted Drafting 2-D	4	General Elective Credit	4	
MACH1502 Basic Machining Processes	3	TADT 1220 Introduction to Manufacturing Processes II	3	Equiv
MEDR1609 Engineering Drawing III	5	General Elective Credit	5	
MEDR1618 Computer Assisted Drafting 3-D	3	TADT 2461 Parametric 3D Modeling	3	Equiv
MACH2523 Intro. to Computer Aided Manufacturing	3	General Elective Credit	3	
MEDR2703 Practicum	3	TADT 3970 Internship (1 credits) and TADT 4970 Internship (2 credits)	3	Equiv
MEDR2610 Machine Design with CAD	3	TADT 1464 Engineering Technology Project I	3	Equiv
MFGT1550 Engineering Drafting	2	General Elective Credit	2	
MFGT1560 Mechatronics I	3	TADT 2465 Engineering Technology Project II	3	Equiv
MACH1625 Blueprint Reading/Geo Tolerancing II	3	General Elective Credit	3	
MEDR2601 Product Design (with CAD)	4	TADD 3440 3D Design Software	4	Equiv
MEDR2615 Applied Statics & Strengths of Material	3	TADT 2217 Strength of Materials	3	Equiv
WELD1620 Blueprint Reading II	3	TADT 3250 Print Reading and Project Documentation	3	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	53	Total College Credits Applied (sum of sections A and B)	72	

Special Notes If Any: Upper Division courses in section B will count toward the 40 upper division credits required for graduation. TADT 2100 Impact of Technology also counts toward completion of liberal education.

SECTION C - Remaining University (receiving) Requirements

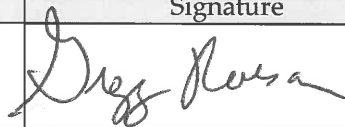
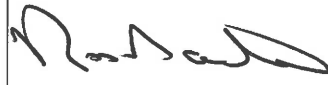


course prefix, number and name	Credits
Additional Credits to satisfy MnTC Requirements	23
TADT Common Core – 15 Credits	
TADT 1111 Introduction to Project Management	3
TADT 3267 Economic and Cost Analysis	3
TADT 4385 Sustainability and Emerging Technologies	3
TADT 4873 Emphasis Related Capstone	3
TADT 4878 Quality Assurance	3
Engineering Technology Core – 27 Credits	
MATH 1470 Precalculus	5
PHYS 1102 General Physics II	4
TADT 2877 Engineering Problem Solving	3
TADT 3217 Materials Science and Metallurgy	3
TADT 3277 Programmable Logic Controllers	3
TADT 3462 Computer Controlled Machining	3
TADT 3537 Industrial Design/Innovation	3
TADT 4778 Advanced Topics in Technology	3
Total Remaining University Credits²	65

Special Notes, if any:

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	19		
Major, Emphasis, Unrestricted Electives or Other	53		
Total College Credits	72	Total College Credits Applied	72
		Remaining credit to be taken at the university (receiving institution)	65
		Total Program Credits	137
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
Senior Dean of Academic Affairs	Gregg Raisanen		3-26-18
Executive Vice President of Academic and Student Affairs	Ross Santell		3-26-18
University	Name	Signature	Date
Chief Academic Officer			
Provost and Vice President of Academic and Student Affairs	Dr. Tony Peffer		3/13/18
Title			
DARS Encoder	Bev Hodgson		3/13/18
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			