

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
TRANSFER AGREEMENT
BETWEEN

Minnesota North 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 **Minnesota North College- Mesabi Campus, 1515 East 25th Street Hibbing, MN 55746** (hereinafter sending institution), and **Bemidji State University 1500 Birchmont Drive NE, Bemidji, MN 56601-2699** (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 **Electrical Controls and Maintenance 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 **72** credits from the sending program. A total of **62-66** 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 **10/13/2023** and shall remain in effect until **10/12/2028** 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 **4/12/2028** (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 | Minnesota North College-Mesabi | Bemidji State University |
| Program name | Electrical Controls and Maintenance AAS | Engineering Technology |
| Award Type (e.g., AS) | AAS | B.S. |
| Credit Length | 72 | 120 |
| CIP code (6-digit) | 15.0613 | 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 | | | | | | |
| CHEM 1200 Introduction to Chemistry | 3, 10 | 4 | CHEM 1110 Chemistry for Allied Health | 3, 10 | 4 | Equiv |
| * PHYS 1211 College Physics 1 or | 3 | 4 | PHYS 1101 General Physics I | 3 | 4 | Equiv |
| NSCI 1210 Physical Science | 3,10 | 4 | SCI 1110 Physical Science I | 3,10 | 4 | Equiv |
| ENGL 1231 College Composition 1 | 1 | 4 | ENGL 1151 Composition | 1 | 4 | Equiv |
| SOC 2210 Human Relations | 5 | 3 | MnTC Goal Area and credit equivalent | 5 | 3 | Equiv |
| MnTC Elective from Goal Areas 5, 6, 7, 9 | 5, 6, 7, 9 | 3 | MnTC Goal Area and credit equivalent | 5, 6, 7, 9 | 3 | Equiv |
| | | | | | | |
| MnTC/General Education Total | | 18 | | | | |

Special Notes: Bemidji State University recommends students take PHYS 1211 at Minnesota North College.

Students who do not take PHYS 1211 at the college will need to take PHYS 1101 General Physics I at the university. Remaining MnTC requirements may be completed at the college or university.

¹ MnTC goal areas transfer to the receiving MnSCU 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, sociobiology, etc. which students can select).

| Major, Emphasis, Restricted, Unrestricted Electives or Other Courses | | | | |
|--|----|---|----|-------|
| ECM 1244 Industrial Pneumatics | 2 | General Elective Credits | 2 | |
| ECM 1252 Intro to Ethernet Networks | 3 | General Elective Credits | 3 | |
| ECM 1264 Electrical and Electronic Theory | 7 | TADT 2465 Engineering Tech. Project II and General Elective Credits (4 cr.) | 7 | Equiv |
| ECM 1276 Electrical/Mechanical Equipment and Systems | 3 | TADT 1210 Introduction to Manufacturing Processes I | 3 | Equiv |
| MATH 1130 Applied Technical Math | 2 | TADT 3970 Internship | 2 | Sub |
| ECM 1251 Programmable Logic Controllers | 3 | TADT 3277 Programmable Logic Controllers | 3 | Equiv |
| ECM 1260 Electrical Safety | 1 | General Elective Credits | 1 | |
| ECM 1265 National Electrical Code | 3 | General Elective Credits | 3 | |
| ECM 1266 Industrial Motor Control | 6 | TADT 1464 Engineering Tech. Project I and General Elective Credits (3 cr.) | 6 | Equiv |
| ECM 1275 Introduction to Process Control | 2 | TADT 2100 Impact of Technology, Art and Design | 2 | Equiv |
| ECM 2253 Automated Machine Control | 6 | General Elective Credits | 6 | |
| ECM 2264 Automation Components and Equipment | 3 | TADT 1220 Introduction to Manufacturing Processes II | 3 | Equiv |
| ECM 2266 Temperature, Strain, and Analytical Instruments | 3 | General Elective Credits | 3 | |
| ECM 2267 Pressure, Flow, and Level Instruments | 3 | TADT 2877 Engineering Problem Solving | 3 | Equiv |
| ECM 2276 Automated Process Control | 7 | **REQUIRED FOUNDATION COURSES (Upper Division) | 7 | Equiv |
| | | | | |
| | | | | |
| General Electives | | | | |
| Major, Emphasis, Unrestricted Electives Total | 54 | Total College Credits Applied (sum of sections A and B) | 72 | |

Special Notes: TADT 3970, 3277, and Required Foundation core will all transfer as upper division credits.

SECTION C - Remaining University (receiving) Requirements

| | course prefix, number and name | Credits |
|--|--|---------|
| | Credits to finish MnTC/Graduation Requirements | 15 |
| | | |
| | I 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 |
| | | |
| | Engineering Technology Core Courses | |
| | MATH 1470 Precalculus (5 credits) | 5 |
| | PHYS 1101 General Physics I | 0-4 |
| | PHYS 1102 General Physics II (4 credits) | 4 |
| | TADT 1460 2D Graphics and Laser Etching (3 credits) | 3 |
| | TADT 2217 Strength of Materials (3 credits) | 3 |
| | TADT 2461 Parametric 3D Modeling (3 credits) | 3 |
| | TADT 3217 Materials Science and Metallurgy (3 credits) | 3 |

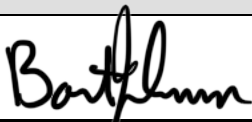
| | | |
|--|---|-------|
| | TADT 3462 Computer Controlled Machining (3 credits) | 3 |
| | TADT 3537 Industrial Design/Innovation (3 credits) | 3 |
| | TADT 4778 Advanced Topics in Technology (3 credits) | 3 |
| | Total Remaining University Credits² | 62-66 |

Special Notes, if any:

| SECTION D - Summary of Total Program Credits | | | |
|---|----|---|---------|
| College (sending) Credits | | University (receiving) Requirements | |
| MnTC/General Education | 18 | | |
| Major, Emphasis, Unrestricted Electives or Other | 54 | | |
| Total College Credits | 72 | Total College Credits Applied | 72 |
| | | Remaining credit to be taken at the university (receiving institution) | 62-66 |
| | | Total Program Credits | 134-138 |

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 Chief Academic Officer | Name | Signature | Date |
|---|-------------------|---|----------|
| Vice President of Academic Affairs Title | Dr. Bart Johnson |  | 11/29/23 |
| University Chief Academic Officer | Name | Signature | Date |
| Provost Title | Dr. Allen Bedford | | |
| DARS Encoder | Beverly Hodgson | | |
| Transfer Credit Evaluator | Anna Riedel | | |

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