

**Transfer Articulation Agreement for 2+2 BS Degree
Industrial Technology - General Technology**

**Memorandum of Cooperation Between
Moorhead State University &
Northland Community & Technical College**

1 Introduction

Providing students with quality educational opportunities is a mission of both Moorhead State University and Northland Community & Technical College. The General Technology program emphasis, within the Industrial Technology BS degree, is designed to accommodate transfer of students who have earned an Associate of Applied Science degree, Associate of Science degree, or a technical diploma from an accredited institution in a field of study related to Industrial Technology. The core reason for this document is to establish a process to accommodate the transfer of the technically oriented credits, in the designated technical programs at Northland Community & Technical College to the BS degree in Industrial Technology-General Technology at Moorhead State University.

2 Transfer Guidelines and Policies

2.1 Credit Transfer-Articulated Programs:

The evaluation and transfer of earned college credits shall be in full compliance with the Minnesota State Colleges and Universities' Board of Trustees -- Policy Section 3-1 and all other state and federal educational policies pertaining to undergraduate credit transfer. Current students and graduates, who have earned degrees or diplomas from Northland Community & Technical College, shall be eligible for credit evaluation under the terms of this agreement. Programs eligible for transfer under this articulation agreement are listed in section 3.1 of this document. The General Technology program (Industrial Technology BS Degree) allows for a transfer of technical credits and recognizes these courses as comprising a cohesive set, which constitute a technical area of expertise. MSU's transfer specialist will evaluate the transferring student's transcript and accept those courses approved for liberal arts transfer.

2.1.1 Associate of Applied Science Degree Transfers: AAS degree graduates will generally transfer a minimum of 64 semester credit hours.

2.1.1.1 Technical Program Area Credits: For those programs listed in this agreement, it is expected that a minimum of 30 technical area semester credits will be placed in the Industrial Technology-General Technology major as the technical specialty. Any remaining technical program area credits will transfer as a block to become general, or "free" elective credits, and will count toward the 128 semester credit hour graduation requirement.

2.1.1.2 General Education-Liberal Arts Credits:

MSU's transfer specialist will evaluate the transferring student's transcript and accept those courses approved for liberal arts transfer.

1/11/1999

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Industrial Technology--General Technology**

2.1.1.3 Other Transfer/Graduation Requirements:

Each student graduating from Moorhead State University is expected to have completed at least one-third of his or her BS degree courses as upper-division courses. In addition, for Moorhead State University to grant the BS degree, a minimum of 30 semester credits must have been earned at MSU and all MSU applicable graduation requirements must be met.

3 Articulated Programs, Timelines, and Signatures

3.1 Articulated Programs:

After reviewing the program materials, the Department of Technology faculty and the faculty of the listed programs agree that these programs meet the definition of Industrial Technology and are appropriate for transfer.

Architectural Drafting & Design	AAS
Aviation Maintenance Technology	AAS
Avionics	AAS
Electronics	AAS

3.2 Articulation Agreement Review.

The Vice President of Academic Affairs at Moorhead State University, or designee, and the Dean of Academic Affairs at Northland Community & Technical College, or designee, shall periodically review this memorandum of understanding for articulated transfer. Additions or approved articulated programs will follow the same process as those approved initially. Programs may be added or deleted by mutual consent and initialing changes by CEOs of Moorhead State University and Northland Community & Technical College. The date of implementation will be considered the date signed by both CEO's.

3.3 Signatures:

____ Signature Present _____

President

____ 6-7-99 _____

Date

Moorhead State University

____ Signature Present _____

President

____ May 4, 1999 _____

Date

Northland Community & Technical College

2+2 Transfer BS Degree
General Technology
Industrial Technology

The General Technology option, within the Industrial Technology B.S. degree, is designed for transfer students who have earned an Associate of Applied Science degree, an Associate of Science degree, or a technical diploma from an accredited institution in a field of study related to Industrial Technology. Students transferring into the General Technology option complete the Industrial Technology Core Curriculum, MSU's Liberal Studies requirements and the 43-semester credit hour upper-division course requirement in completing the General Technology IT option.

Liberal Studies Requirements**

(Minimum of 45 credits)

A. English (Minimum of 6 cr.)

- | | | |
|---------------------------|-----|-----|
| English 101 or equivalent | Cr | Gr |
| English 102 or equivalent | ___ | ___ |

B. Natural Sciences & Their Processes (6 cr. Minimum)

(Minimum of 6 semester credits in Chemistry and/or Physics with one lab science course)

C. Behavioral & Social Sciences (6 cr.)

Economics

D. Western Tradition: Humanities & Fine Arts (6 cr.)

D1- _____

E. Communicative & Symbolic Processes (6 cr.)

- | | | |
|----------------------------|-----|-----|
| Probability and Statistics | Cr | Gr |
| College Algebra | ___ | ___ |
| Technical Report Writing | ___ | ___ |

F. Multicultural & Global Studies (5 cr.)

F1 _____

General Technology Curriculum

(60 credits)

Industrial Technology Core Curriculum

(27 credits)

- | | | |
|---|----|-----|
| Tech 380 Methods Improvement | Cr | Gr |
| Tech 383 Cost Analysis | 3 | ___ |
| Tech 385 Process Leadership | 3 | ___ |
| Tech 394 Computer Appl. For Engr. & Tech. | 3 | ___ |
| Tech 428 Project Management | 3 | ___ |
| Tech 482 Quality Planning/Implementation | 3 | ___ |
| Tech 493 Industrial Safety/Health | 3 | ___ |
| Acct 230 Principles of Accounting I | 3 | ___ |
| Mgmt 360 Principles of Management | 3 | ___ |

Tech 469 Internship	Cr	Gr
	3	___

Industrial Technology Core (from MSU):	Cr	Gr
	30	___

Technical Block (minimum of 30 technical transfer credits from technical area)	Cr	Gr
	30	___

- **Total Program Credits:** 60
- **300/400 Electives*** 10

Students identifying Industrial Technology-General Technology as their intended major at Moorhead State University may transfer up to 48 technical area credits. A minimum of 30 credits will be applied to the technical portion of the IT major. Any remaining technical area credits may be transferred and designated as "free electives" counting toward graduation requirements. **This 2+2 BS program, the first approved by MnSCU for block credit transfer, recognizes the technical courses as a cohesive set of courses with stated and verified educational outcomes.** General Education credits will be evaluated and transferred, if appropriate for Liberal Arts or free electives. If the student changes his/her declared major after admission to the General Technology IT option, the MnSCU rule, which allows for 16 transfer credits, would automatically apply and the student's transcript will be reevaluated by the departmental faculty of the new declared major.

*Enrolling in 300 level courses as part of the Liberal Studies requirements will assist students in meeting the Liberal Studies requirements, as well as meeting the 43 upper-division credit graduation requirement. Enrolling in 300 and 400 level courses is required and students should consult with their advisor for appropriate course selection.

**Moorhead State University's Liberal Studies Requirements-Check with your advisor or college transfer specialist for appropriate transfer course selections as the General Education portion of the two-year technical program of study. The courses listed are required to meet accreditation guidelines.

Suggested Course Sequencing: General Technology

JUNIOR YEAR

Fall Semester:

Elective	3 cr
Tech 380-Methods Improvement	3 cr
Acct 230-Principles of Accounting 1	3 cr
Math 134-Elem. Prob & Statistics	4 cr
Elective	3 cr
Total	16 cr

Spring Semester:

Tech 394-Computer Applications	3 cr
Tech 383-Cost Analysis	3 cr
Engl 387-Technical Report Writing	4 cr
Mgmt 360-Principles of Management	3 cr
Elective	4 cr
Total	16 cr

SUMMER SESSION

Tech 469-Intemship	3 cr
Total	3 cr

SENIOR YEAR

Fall Semester:

Elective	3 cr
Tech 428-Project Management	3 cr
Tech 493-Occupational Safety/Health	3 cr
Elective	3 cr
Elective	3 cr
Total	15 cr

Spring Semester:

Elective	2 cr
Tech 385-Process Leadership	3 cr
Tech 482-Quality Planning/Implementation	3 cr
Elective	3 cr
Elective	3 cr
Total	14 cr

The **Industrial Technology** degree prepares technical and/or technical management-oriented professionals for employment in business, industry, education, and government. The curriculum provides for:

1. Application of knowledge of theories, concepts, and principles found in the humanities and social and behavioral sciences, including a thorough grounding in communication skills.
2. Understanding of the theories and the ability to apply the principles and concepts of mathematics and science and the integration of computer applications.
3. Application of concepts derived from, and current skills developed in, a variety of technical and related disciplines including, but not limited to, materials and production processes, industrial management, electronics, graphics, communications, computer applications, and industrial safety.
4. Specialization in a technological field: Construction Management, Industrial Distribution, Industrial Management, General Technology transferred related technical area.

National Association of Industrial Technology's Definition of Industrial Technology

Northland Community & Technical College Articulated Programs -

The following programs at **Northland Community & Technical College** have been reviewed and selected for inclusion in a transfer articulation agreement with Moorhead State University, which streamlines technical credit transfer into MSU's Industrial Technology General Technology option. MSU's transfer specialist will evaluate the transferring student's transcript for General Education credits for transfer into MSU Liberal Arts requirement. If a student feels their transcript was not evaluated properly they are asked to contact the Department of Technology Office, their faculty advisor, or the Registrar's Office for further review or explanation.

- > **Architectural Drafting & Design**
- > **Aviation Maintenance Technology**
- > **Avionics**
- > **Electronics**