

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

Memorandum of Cooperation Between Moorhead State University & Hennepin Technical College

1 Introduction

Providing students with quality educational opportunities is a mission of both Moorhead State University and Hennepin 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 Hennepin 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 Hennepin 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.

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.

2.1.2 Diploma Program Transfers:

Diploma program graduates will generally transfer a minimum of 45 semester credits.

2.1.2.1 Technical Program Area Credits:

For those diploma 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. 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.

2.1.2.2 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.

2.1.2.3 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.

- **Business & Information Technology**
 - Computer Programmer AAS, Diploma
 - Networking & Data
 - Communications AAS, Diploma
 - PC Support Specialist Diploma
- **Construction & Building Systems Technology**
 - Architectural Drafting and Design/CAD AAS, Diploma
 - Cabinetmaking AAS, Diploma
- **Manufacturing & Electronics Technology**
 - Automated Machinery Systems:
 - Packaging AAS, Diploma
 - Electronics Technology AAS, Diploma
 - Fluid Power Technology AAS, Diploma
 - Machine Trades:

Computer Numerical Control Technician	Diploma
Die Making	Diploma
Mold Making	Diploma
Mechanical Design Technology (CAD)	AAS, Diploma
Plastics Technology	AAS, Diploma
Welding and Metal Fabrication	Diploma
• Transportation Technology	
Auto Body Technician	Diploma
Automotive Technician	AAS, Diploma
Diesel Equipment Technology	Diploma
Marine/Motor Sports Technician	Diploma

3.2 Articulation Agreement Review:

The Vice President of Academic Affairs at Moorhead State University, or designee and the Vice President of Academic Affairs at Hennepin 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 Hennepin Technical College. The date of implementation will be considered the date signed by both CEO's.

3.3 Signatures:

Signature Present
President

3/3/99
Date

Moorhead State University

Signature Present
President

Feb. 18, 1999
Date

Hennepin Technical College

2+2 Technical Management 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.)

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

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

(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	___	___
College Algebra	___	___
Technical Report Writing	___	___

F. Multicultural & Global Studies (5 cr.)

F1 _____	___	___
_____	___	___

General Technology Curriculum

(60 credits)

Industrial Technology Core Curriculum

(27 credits)

	Cr	Gr
Tech 380 Methods Improvement	3	___
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	3	___
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Industrial Technology Core (from MSU):

	30	
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Technical Block (minimum of 30 technical transfer credits from technical area)	30	
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• 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 transfer credits may be transferred as a block and designated as "free electives." **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 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 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 I	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
Engr 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 385-Process Leadership	3 cr
Tech 493-Industrial Safety/Health	3 cr
Elective	3 cr
Elective	3 cr
Total	15 cr

Spring Semester:

Elective	2 cr
Tech 428-Project Management	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, or other industrially related technical areas.

National Association of Industrial Technology's Definition of Industrial Technology

Hennepin Technical College Articulated Programs-

The following programs at Hennepin 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.

Business & Information Technology

Computer Programmer	AAS, Diploma
Networking & Data	
Communications	AAS, Diploma
PC Support Specialist	Diploma

Construction & Building Systems Technology

Architectural Drafting and Design/CAD	AAS, Diploma
Cabinetmaking	AAS, Diploma

Transportation Technology

Auto Body Technician	Diploma
Automotive Technician	AAS, Diploma
Diesel Equipment Technology	Diploma
Marine/Motor Sports Tech	Diploma

Manufacturing & Electronics Technology

Automated Machinery Systems: -Packaging	AAS, Diploma
Electronics Technology	AAS, Diploma
Fluid Power Technology	AAS, Diploma
Machine Trades: -Computer Numerical Control Technician	Diploma
-Die Making	Diploma
-Mold Making	Diploma
Mechanical Design Technology (CAD)	AAS, Diploma
Plastics Technology	AAS, Diploma
Welding and Metal Fabrication	Diploma