

Southeastern Community College

Associate of Applied Science (A.A.S.) - Precision Machining & CNC Technology

Transfer Guide to the [University of Northern Iowa](http://www.uni.edu)

Bachelor of Science (B.S.) - Manufacturing Engineering Technology

A.A.S. Courses Transferring to UNI

Upon successful completion of the A.A.S. degree highlighted in this transfer guide, the following courses within the Bachelor of Science (B.S.) of Manufacturing Engineering Technology program at the University of Northern Iowa would be satisfied:

UNI Catalog #	Course Title	Cr.
TECH 1008	Basic Manufacturing Processes	3
TECH 1010	Metal Removal Processes	3
TECH 1024	Technical Drawing & Design I	3
TECH 2060	Fund. of Automated Manufacturing	3
TECH 2072	Engineering Materials	3
TECH 3180	Lean & Sustainable Operations	3
	Additional univ. electives from A.A.S.	16
Grand Credit Total		34

Credit Summary	Cr.
A.A.S. credits transferring to UNI	34
Other credits transferring to UNI	3
Total credits toward UNI degree	37
Total credits needed at UNI	89

Other Courses Transferring to UNI

Additional coursework built into this A.A.S. degree program may also transfer to the University of Northern Iowa. These courses satisfy requirements towards UNI's Liberal Arts core (LAC) unless otherwise noted. For more information about the LAC, please see the reverse of this document.

Required by A.A.S. degree plan

The course listed below is required as part of the SCC A.A.S. curriculum.

SCC Catalog #	Course Title	LAC
SPC 112	Public Speaking	1B
Grand Credit Total		3

* The LAC column lists the category each course satisfies at UNI.

Have some extra time?

Listed below is a breakdown of the courses at Southeastern Community College that the student could take to fulfill various LAC options at UNI.

HCC Catalog #	Course Title	LAC
ENG 106	Composition II Take ENG 105 & ENG 106 to fulfill LAC 1A at UNI	1A
HIS 110 or HIS 111	Western Civilization: Ancient to Early or Western Civilization: Modern to Present	2A
ART 101 or MUS 100	Art Appreciation or Music Appreciation	3A
GEO 121 or SOC 115	World Regional Geography or Social Problems	5C

* The LAC column lists the category each course satisfies at UNI.

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Bachelor of Science (B.S.) - Manufacturing Engineering Technology

Remaining UNI Coursework

By completing the recommended A.A.S. degree plan, courses highlighted in red transfer into the Manufacturing Engineering Technology program at UNI.

Math/Science Coursework		Cr.
CHEM 1020 or CHEM 1110	Chemical Technology or General Chemistry I	4
MATH 1150 or MATH 1420	Calculus for Technology or Calculus I	4
PHYSICS 1511	General Physics I Course also counts as LAC category 4B	4
Total Credits Remaining		12

Technical Core		Cr.
TECH 1008	Basic Manufacturing Processes	3
TECH 1010	Metal Removal Processes	3
TECH 1024	Technical Drawing & Design I	3
TECH 2024	Technical Drawing & Design II	3
TECH 2060	Fundamentals of Automated Manufacturing	3
TECH 2072	Engineering Materials	3
TECH 2080	Statics & Strengths of Materials	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Managing Operations & Manufacturing Systems	3
TECH 3180	Lean & Sustainable Operations	3
TECH 3196	Industrial Safety	3
TECH 4110	Manufacturing Process Planning	3
TECH 4187	Applied Industrial Supervision & Management	3
TECH 4210	Manufacturing Senior Projects	3
	Advanced Manufacturing Emphasis: TECH 3024 - Advanced CAD & Modeling TECH 3113 - Manufacturing Tooling TECH 3135 - Product Design TECH 3148 - Machine Design	12
ENGLISH 3772	Technical Writing for Eng. Technologists	3
Total Credits Remaining		39

Liberal Arts Core (LAC)		Cr.
Category I	1A, 1B, 1C, & 1D	8
Category II	2A, 2A, & 2B	9
Category III	3A & 3B	6
Category IV	4A & 4B	3
Category V	5A, 5B, & 5C	9
Category VI	Capstone	3
Total Liberal Arts core (LAC) Credits Remaining		38

Credits needed to earn UNI degree 89

Remaining UNI Plan of Study

Based on the remaining coursework, below is a semester-by-semester breakdown of how the student would complete the remaining requirements at UNI.

Semester 1	Cr.
CHEM 1020	4
TECH 2024	3
TECH 3196	3
LAC	6
Total	16

Semester 2	Cr.
MATH 1150	4
ENGLISH 3772	3
LAC	9
Total	16

Semester 3	Cr.
PHYSICS 1511	4
LAC	11
Total	15

Semester 4	Cr.
TECH 2080	3
TECH 3142	3
TECH 3143	3
LAC	6
Total	15

Semester 5	Cr.
TECH 4187	3
Emphasis Area	3
Emphasis Area	3
LAC	6
Total	15

Semester 6	Cr.
TECH 4110	3
TECH 4210	3
Emphasis Area	3
Emphasis Area	3
Total	12

Important Information:

* This transfer guide is based off of the 2020-21 academic catalogs at UNI and Southeastern Community College.

* Courses listed in the Remaining UNI Plan of Study section are subject to change at anytime.

* This transfer guide assumes the student is only transferring in coursework from their current A.A.S. degree curriculum. Students may transfer in additional credits, which will be evaluated on an individual basis.

* Remaining UNI Plan of Study section is scheduled based on a fall semester start. Students planning to transfer to UNI prior to the spring semester would be subjected to a different plan of study.

* The Liberal Arts core (LAC) at UNI is the collection of general education requirements required by the institution to fulfill the university's mission. More information can be found at lac.uni.edu.

UNI Department of Technology

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Southeastern Community College

Transfer Guide to the **University of Northern Iowa**

Bachelor of Arts (B.A.) - Technology Management

A.A.S. degrees included in agreement:

- Advanced Automation & Robotics Technology
- Automotive Technology
- Automotive Technology - Management
- Biomedical Electronics Technology
- Computer-Aided Design Technology
- Collision Repair & Restoration
- Construction Technology - Carpentry
- Construction Technology - Management
- Industrial Maintenance Technology
- Interactive & Social Media Marketing
- Network Administration & Cyber Security
- Precision Machining & CNC Technology
- Welding

Transfer Plan:

Shown below are the remaining requirements for students in the A.A.S. programs listed to the left, that wish to pursue the Technology Management Program at UNI. All course in the major are listed, with the exception of Liberal Arts core (LAC) and university elective requirements.

Courses highlighted in red denotes coursework that would be accepted into the Technology Management program pending verification of an official community college transcript.

Math/Science Coursework		Cr.
STAT 1772	Introduction to Statistical Methods Course also counts towards LAC category 1C.	3
CHEM 1010 or CHEM 1020 or CHEM 1110	Principles of Chemistry or Chemical Technology or General Chemistry I Courses also count toward LAC category 4B.	3-4
PHYSICS 1000 or PHYSICS 1400 or PHYSICS 1511	Physics in Everyday Life or Conceptual Physics or General Physics I Courses also count toward LAC category 4B.	3-4
Total		10-11

Technology Management Coursework		Cr.
TECH 3065	Technology & Organizational Efficiency	3
TECH 3131	Technical Project Management	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Managing Ops. & Manufacturing Systems	3
TECH 3180	Lean & Sustainable Operations	3
TECH 4187	Applied Industrial Supervision & Management	3
Total		18

Technical Electives		Cr.
	Technical Electives	36
Total		36

Any Liberal Arts core (LAC) courses, including the mathematics/science core listed above, will be reviewed by the Office of Admissions and, if approved, can be transferred in addition to the technical courses listed above.

Note: The Technology Management B.A. program at UNI can be completed on campus, or at a distance via eLearning or hybrid courses.