

# Southeastern Community College

## Associate of Applied Science (A.A.S.) - Industrial Maintenance Technology

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

### Bachelor of Science (B.S.) - Electrical 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 Electrical Engineering Technology program at the University of Northern Iowa would be satisfied:

UNI Catalog #	Course Title	Cr.
TECH 1037	Intro to Circuits	3
TECH 2038	Intro to Electrical Power & Machinery	3
TECH 3160	Computer-Aided Instru. & Interfacing	3
TECH 3164	Programmable Logic Controllers	3
	Additional univ. electives from A.A.S.	11
<b>Grand Credit Total</b>		<b>23</b>

Credit Summary	Cr.
A.A.S. credits transferring to UNI	23
Other credits transferring to UNI	9
<b>Total credits toward UNI degree</b>	<b>32</b>
Total credits needed at UNI	94

#### 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.

#### Option A

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

SCC Catalog #	Course Title	LAC
BIO 105	Introductory Biology	4A
<b>Grand Credit Total</b>		<b>3</b>

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

#### Option B (students choose one)

The courses listed below are required as part of an option within the SCC A.A.S. curriculum.

SCC Catalog #	Course Title	LAC
PSY 102 <b>or</b>	Human & Work Relations <b>or</b>	5B <b>or</b>
PSY 111 <b>or</b>	Intro to Psychology <b>or</b>	5B <b>or</b>
SOC 110	Intro to Sociology	5A
<b>Grand Credit Total</b>		<b>3</b>

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

#### Option C (students choose one)

The courses listed below are required as part of an option within the SCC A.A.S. curriculum.

SCC Catalog #	Course Title	LAC
HIS 151 <b>or</b>	US History to 1877 <b>or</b>	5A <b>or</b>
HIS 152 <b>or</b>	US History Since 1877 <b>or</b>	5A <b>or</b>
PHI 101 <b>or</b>	Intro to Philosophy <b>or</b>	3B <b>or</b>
PHI 105	Intro to Ethics	3B
<b>Grand Credit Total</b>		<b>3</b>

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

**NOTE:** Students should select only one LAC 5A course.

#### 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.

SCC Catalog #	Course Title	LAC
ENG 106	Composition II Take ENG 105 & ENG 106 to fulfill LAC 1A at UNI	1A
MAT 156	Statistics	1C
HIS 110 <b>or</b>	Western Civilization: Ancient to Early <b>or</b>	2A
HIS 111	Western Civilization: Modern to Present	
ART 101 <b>or</b>	Art Appreciation <b>or</b>	3A
MUS 100	Music Appreciation	

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

#### UNI Department of Technology

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### Bachelor of Science (B.S.) - Electrical Engineering Technology

#### Remaining UNI Coursework

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

Math/Science Coursework		Cr.
CS 1160	C/C+ Programming	3
MATH 1140	Precalculus	4
MATH 1150 <b>or</b> MATH 1420	Calculus for Technology <b>or</b> Calculus I	4
PHYSICS 1511	General Physics I Course also counts as LAC category 4B	4
PHYSICS 1512	General Physics II	4
STAT 1772	Introduction to Statistical Methods Course also counts as LAC category 1C	3
<b>Total Credits Remaining</b>		<b>22</b>

Technical Core		Cr.
TECH 1037	Introduction to Circuits	3
TECH 1039	Circuits & Systems	3
TECH 2038	Introduction to Electrical Power & Machinery	3
TECH 2041	Introduction to Analog Electronics	3
TECH 2042	Introduction to Digital Electronics	3
TECH 3129	Linear Control Systems	3
TECH 3152	Advanced Analog Electronics	3
TECH 3156	Advanced Digital Electronics	3
TECH 3157	Microcontroller Applications	3
TECH 3160	Computer-Aided Instrumentation & Interfacing	3
TECH 3164	Programmable Logic Controllers	3
TECH 3166	Advanced Electrical Power Systems	3
TECH 4103	Electronic Communications	3
TECH 4104	Applied Digital Signal Processing	3
TECH 4165	Wireless Communications Networks	3
TECH 4167	Power Electronics Application	3
TECH 4174	Senior Design I	1
TECH 4176	Senior Design II	3
ENGLISH 3772	Technical Writing for Eng. Technologists	3
<b>Total Credits Remaining</b>		<b>43</b>

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	0
Category V	5A, 5B, & 5C	3
Category VI	Capstone	3
<b>Total Liberal Arts core (LAC) Credits Remaining</b>		<b>29</b>

**Credits needed to earn UNI degree 94**

#### 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.
MATH 1140	4
PHYSICS 1511	4
LAC	6
<b>Total</b>	<b>14</b>

Semester 2	Cr.
CS 1160	3
MATH 1150	4
TECH 1039	3
LAC	6
<b>Total</b>	<b>16</b>

Semester 3	Cr.
PHYSICS 1512	4
TECH 2041	3
TECH 2042	3
TECH 3157	3
LAC	3
<b>Total</b>	<b>16</b>

Semester 4	Cr.
STAT 1772	3
TECH 3152	3
TECH 3156	3
TECH 3166	3
ENGLISH 3772	3
<b>Total</b>	<b>15</b>

Semester 5	Cr.
TECH 3129	3
TECH 4103	3
TECH 4165	3
TECH 4174	1
LAC	6
<b>Total</b>	<b>16</b>

Semester 6	Cr.
TECH 4104	3
TECH 4167	3
TECH 4176	3
LAC	8
<b>Total</b>	<b>17</b>

#### 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](http://lac.uni.edu).

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## 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 <b>or</b> CHEM 1020 <b>or</b> CHEM 1110	Principles of Chemistry <b>or</b> Chemical Technology <b>or</b> General Chemistry I Courses also count toward LAC category 4B.	3-4
PHYSICS 1000 <b>or</b> PHYSICS 1400 <b>or</b> PHYSICS 1511	Physics in Everyday Life <b>or</b> Conceptual Physics <b>or</b> General Physics I Courses also count toward LAC category 4B.	3-4
<b>Total</b>		<b>10-11</b>

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
<b>Total</b>		<b>18</b>

Technical Electives		Cr.
	Technical Electives	36
<b>Total</b>		<b>36</b>

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.