

**North Iowa Area Community College**  
**Associate of Applied Science (A.A.S.) – Industrial Systems Technology**  
 Transfer guide to the [University of Northern Iowa](#)  
**Bachelor of Science (B.S.) – Automation Engineering Technology**

**1. When will I graduate?**

Students transferring to UNI from this A.A.S. program at NIACC should **expect to take 66 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly five semesters (two and a half years, a fall/spring/fall/spring/fall sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	54
Other credits transferring to UNI	0
Total credits transferring towards UNI degree	54
<b>Total credits needed at UNI</b>	<b>66</b> (120 total)

**2. What A.A.S. courses transfer?**

Upon completion of this A.A.S. degree, the following courses within the listed program at UNI will be completed:

- CS 1160 – C/C+ Programming (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 1037 – Introduction to Circuits (3 cred.)
- TECH 2053 – Introduction to Digital Electronics (4 cred.)
- TECH 2055 – Electrical Power & Machinery & Lab (4 cred.)
- TECH 3160 – Computer-Aided Instrumentation & Interfacing (3 cred.)
- TECH 3164 – Programmable Logic Controllers (3 cred.)
- TECH 4162 – Automation: Pneumatics & Hydraulics (3 cred.)
- AET Electives (15 cred.)
- Additional university electives transferring (13 cred.)



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#### 3. What would I study at UNI?

By completing the recommended A.A.S. degree plan, the student would be required to complete the courses in black, listed below, at UNI.

Math/Science Coursework		Cr.
<del>CS 1160</del>	<del>C/C++ Programming</del>	<del>3</del>
MATH 1150 or MATH 1420	Calculus for Technology or Calculus I	4
PHYSICS 1511	General Physics I	4
STAT 1772	Intro to Statistical Methods	3
<b>Total Credits Remaining</b>		<b>11</b>

AET Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
TECH 1010	Fund. of Materials Removal	3
<del>TECH 1024</del>	<del>Engineering Design with CAD</del>	<del>3</del>
<del>TECH 1037</del>	<del>Intro to Circuits</del>	<del>3</del>
TECH 1039	Circuits & Systems	3
<del>TECH 2053</del>	<del>Digital Electronics &amp; Lab</del>	<del>4</del>
<del>TECH 2055</del>	<del>Electrical Power &amp; Mach. &amp; Lab</del>	<del>4</del>
<del>TECH 2065</del>	<del>Industrial Robotics</del>	<del>3</del>
ENGR 2080	Statics	2
ENGR 2180	Strengths of Materials	2
TECH 3147	Computer-Aided Manufacturing	3
TECH 3148	Machine Design	3
<del>TECH 3160</del>	<del>Comp. Aided Instru. &amp; Inter.</del>	<del>3</del>
<del>TECH 3164</del>	<del>Prog. Logic Controllers</del>	<del>3</del>
<del>TECH 4162</del>	<del>Automation: Pneu &amp; Hydraul.</del>	<del>3</del>
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	<del>AET Electives</del>	<del>15</del>
<b>Total Credits Remaining</b>		<b>28</b>

UNI Foundational Inquiry (UNIFI)		Cr.
WR - Written Communication		3
OC - Oral Communication		3
<del>QR - Quantitative Reasoning</del>		<del>3</del>
HD - Human Condition (Domestic)		3
HG - Human Condition (Global)		3
<del>SR - Scientific Reasoning (with Lab)</del>		<del>4</del>
HE - Human Expression		3
<del>RE - Responsibility</del>		<del>3</del>
UNIFI certificate or UNIFI electives		12
<b>Total UNIFI Credits Remaining</b>		<b>27</b>

**Credits needed to earn UNI degree 66**

#### 4. How would I complete my degree?

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

Fall 1	Cr.
PHYSICS 1511	4
STAT 1772	3
ENGR 1000	3
UNIFI course	3
<b>Total</b>	<b>13</b>

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
TECH 1010	3
TECH 1039	3
<b>Total</b>	<b>13</b>

Fall 2	Cr.
ENGR 2080	2
ENGLISH 3772	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>14</b>

Spring 2	Cr.
ENGR 2180	2
TECH 3147	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>14</b>

Fall 3	Cr.
TECH 3148	3
ENGR 4500	3
UNIFI course	3
UNIFI course	3
<b>Total</b>	<b>12</b>

#### Other Important Information

- This transfer guide is based off of the 2023-2024 academic catalogs at UNI & North Iowa Area Community College and includes future adjustments to the UNI curriculum.
- Courses listed in the Remaining UNI Plan of Study section are subject to change at any time and are based on a fall semester start.
- This transfer guide assumes the student is only transferring in coursework from this A.A.S. degree plan. Students **may transfer additional credits to UNI**, which will be evaluated on an individual basis.
- The UNI Foundational Inquiry (UNIFI) at UNI is the collection of general education courses required by the institution to fulfill the universities mission. For more information, visit [unifi.uni.edu](http://unifi.uni.edu).