

## Iowa Lakes Community College

### Associate of Applied Science (A.A.S.) – Electrical Technology

Transfer guide to the [University of Northern Iowa](#)

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

#### 1. When will I graduate?

Students transferring to UNI from this A.A.S. program at Iowa Lakes should **expect to take 80 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly six semesters (three years, a fall/spring/fall/spring/fall/spring sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	40
Other credits transferring to UNI	0
Total credits transferring towards UNI degree	40
<b>Total credits needed at UNI</b>	<b>80</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:

- TECH 1037 – Introduction to Circuits (3 cred.)
- TECH 1039 – Circuits & Systems (3 cred.)
- TECH 2055 – Electrical Power & Machinery & Lab (4 cred.)
- TECH 3160 – Computer-Aided Instrumentation & Interfacing (3 cred.)
- TECH 3164 – Programmable Logic Controller (3 cred.)
- ENGLISH 3772 – Technical Writing for Engineering Technologists (3 cred.)
- Additional university electives transferring (21 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.
CS 1160	C/C+ Programming	3
MATH 1140	Precalculus	4
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>18</b>

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
<del>TECH 1037</del>	<del>Intro to Circuits</del>	<del>3</del>
<del>TECH 1039</del>	<del>Circuits &amp; Systems</del>	<del>3</del>
TECH 2051	Analog Electronics & Lab	4
TECH 2053	Digital Electronics & Lab	4
<del>TECH 2055</del>	<del>Electrical Power &amp; Machinery &amp; Lab</del>	<del>4</del>
TECH 3129	Linear Control Systems	3
TECH 3157	Microcontroller Applications	3
<del>TECH 3160</del>	<del>Comp.-Aided Instru. &amp; Interfacing</del>	<del>3</del>
<del>TECH 3164</del>	<del>Prog. Logic Controllers</del>	<del>3</del>
TECH 4103	Electronic Communications	3
TECH 4104	App. Digital Signal Processing	3
TECH 4165	Wireless Comm. Networks	3
TECH 4167	Power Electronics Applications	3
ENGR 4500	Senior Design	3
<del>ENGLISH 3772</del>	<del>Tech. Writing for Eng. Tech.</del>	<del>3</del>
<b>Total Credits Remaining</b>		<b>35</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>

<b>Credits needed to earn UNI degree</b>	<b>80</b>
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**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.	
CS 1160	3	
MATH 1140	4	
ENGR 1000	3	
UNIFI course	3	
UNIFI course	3	
<b>Total</b>		<b>16</b>

Spring 1	Cr.	
MATH 1150	4	
PHIL 1560	3	
UNIFI course	3	
UNIFI course	3	
<b>Total</b>		<b>13</b>

Fall 2	Cr.	
PHYSICS 1511	4	
TECH 2051	4	
TECH 2053	4	
<b>Total</b>		<b>12</b>

Spring 2	Cr.	
STAT 1772	3	
UNIFI course	3	
UNIFI course	3	
UNIFI course	3	
UNIFI course	3	
<b>Total</b>		<b>15</b>

Fall 3	Cr.	
TECH 3129	3	
TECH 3157	3	
TECH 4103	3	
TECH 4165	3	
<b>Total</b>		<b>12</b>

Spring 3	Cr.	
TECH 4104	3	
TECH 4167	3	
ENGR 4500	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 & Iowa Lakes 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).