

Northeast Iowa Community College

Associate of Applied Science (A.A.S.) – Industrial Electrician

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 NICC should **expect to complete 75 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	21
Other credits transferring to UNI (Gen eds or electives)	24
Total credits transferring towards UNI degree	45
Total credits needed at UNI	75 (120 total)

2. Which A.A.S. courses transfer directly into the EET major?

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

- MATH 1140 - Precalculus (4 cred.)
 - Students must complete **MAT 128** – Precalculus **or** **MAT 744** – Technical Math at NICC.
- PHYSICS 1511 – General Physics I (4 cred.)
 - Students must complete **PHY 106** – Survey of Physics **or** **PHY 162** – College Physics I at NICC.
- TECH 1037 – Introduction to Circuits (3 cred.)
- TECH 1039 – Circuits & Systems (3 cred.)
- TECH 2055 – Electrical Power Systems & Machinery (4 cred.)
- TECH 3164 – Programmable Logic Controllers (3 cred.)

3. Which A.A.S. courses transfer directly to UNI as “gen eds” or electives?

Other courses built into this A.A.S. curriculum, or open electives, will also transfer to UNI. The following courses are required to complete at NICC as part of this A.A.S. curriculum:

- **PSY 111** – Introduction to Psychology **or** **PSY 112** – Psychology of Human Relations (3 cred.)
- Additional university electives transferring (21 cred.)



Visit our website!

Northeast Iowa Community College

Associate of Applied Science (A.A.S.) – Industrial Electrician

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

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

4. 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
Total Credits Remaining		10

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
TECH 1037	Introduction to Circuits	3
TECH 1039	Circuits & Systems	3
PHIL 1560	Science, Technology & Ethics	3
TECH 2051	Analog Electronics	4
TECH 2053	Digital Electronics	4
TECH 2055	Elec. Power Systems & Machinery	4
TECH 3129	Linear Control Systems	3
TECH 3157	Microcontroller Applications	3
TECH 3160	Comp.-Aided Instru. & Interfacing	3
TECH 3164	Programmable Logic Controllers	3
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
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
Total Credits Remaining		41

UNI Foundational Inquiry (UNIFI)		Cr.
WR - Written Communication		3
OC - Oral Communication		3
QR - Quantitative Reasoning		3
HD - Human Condition (Domestic)		3
HG - Human Condition (Global)		3
SR - Scientific Reasoning (with Lab)		4
HE - Human Expression		3
RE - Responsibility		3
UNIFI certificate or UNIFI electives		12
Total UNIFI Credits Remaining		24

Credits needed to earn UNI degree 75

5. 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
ENGR 1000	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
Total	15

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
ENGLISH 3772	3
UNIFI course	3
UNIFI course	3
Total	16

Fall 2	Cr.
STAT 1772	3
TECH 2051	4
TECH 2053	4
UNIFI course	3
Total	14

Spring 2	Cr.
TECH 3160	3
TECH 4104	3
TECH 4167	3
UNIFI course	3
UNIFI course	3
Total	15

Fall 3	Cr.
TECH 3129	3
TECH 3157	3
TECH 4103	3
TECH 4165	3
ENGR 4500	3
Total	15

Other Important Information

- This transfer guide is based off the 2025-2026 academic catalogs at UNI & Northeast Iowa Community College.
- Courses listed in the Remaining UNI Plan of Study (section 5) are subject to change at any time. This plan assumes transfer students start in the fall semester.
- 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 university's mission. For more information, visit unifi.uni.edu.