

Iowa Central Community College
Associate of Applied Science (A.A.S.) – Electrical Technologies
 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 Central should **expect to take 74 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	40
Other credits transferring to UNI	6
Total credits transferring towards UNI degree	46
Total credits needed at UNI	74 (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:

- PHYSICS 1511 – General Physics I (4 cred.)
 - Students must complete PHY 162 – College Physics **or** PHY 184 – Applied Physics at Iowa Central.
- 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 Controllers (3 cred.)
- ENGLISH 3772 – Technical Writing for Engineering Technologists (3 cred.)
- Additional university electives transferring (17 cred.)

3. What other courses transfer?

Other courses built into this A.A.S. curriculum, or open electives, will also transfer to UNI. The following courses are recommended to take at Iowa Central as part of this A.A.S. curriculum:

- Communications elective (3 cred.)
 - Students should complete SPC 101 – Fundamentals of Oral Communication **or** SPC 112 – Public Speaking **or** SPC 122 – Interpersonal Communications at Iowa Central.
- Humanities/Social Science elective (3 cred.)
 - Students should complete PSY 111 – Introduction to Psychology **or** SOC 110 – Introduction to Sociology at Iowa Central.



Iowa Central Community College
Associate of Applied Science (A.A.S.) – Electrical Technologies
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		14

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
TECH 1037	Intro to Circuits	3
TECH 1039	Circuits & Systems	3
TECH 2051	Analog Electronics & Lab	4
TECH 2053	Digital Electronics & Lab	4
TECH 2055	Electrical Power & Machinery & Lab	4
TECH 3129	Linear Control Systems	3
TECH 3157	Microcontroller Applications	3
TECH 3160	Comp.-Aided Instru. & Interfacing	3
TECH 3164	Prog. 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		35

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		25

Credits needed to earn UNI degree	74
--	-----------

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	
MATH 1140	4	
ENGR 1000	3	
UNIFI course	3	
UNIFI course	3	
Total		16

Spring 1	Cr.	
MATH 1150	4	
UNIFI course	3	
UNIFI course	3	
UNIFI course	3	
Total		13

Fall 2	Cr.	
STAT 1772	3	
PHIL 1560	3	
TECH 2051	4	
TECH 2053	4	
Total		14

Spring 2	Cr.	
TECH 4104	3	
TECH 4167	3	
UNIFI course	4	
UNIFI course	3	
UNIFI course	3	
Total		16

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 of the 2023-2024 academic catalogs at UNI & Iowa Central 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.