University of Northern Iowa

Department of Applied Engineering & Technical Management Transfer Guide

Iowa Lakes Community College

Associate of Applied Science (A.A.S.) – Engineering 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 73 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	47
Other credits transferring to UNI	0
Total credits transferring towards UNI degree	47
Total credits needed at UNI	**73** (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 1037 – Introduction to Circuits (3 cred.)
- TECH 1039 – Circuits & Systems (3 cred.)
- TECH 2053 – Digital Electronics & Lab (4 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
	Total Credits Remaining	**15**

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	**31**

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	**27**

Credits needed to earn UNI degree	**73**

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.
MATH 1140	4
PHYSICS 1511	4
ENGR 1000	3
UNIFI course	3
Total	**14**

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
UNIFI course	3
UNIFI course	3
Total	**13**

Fall 2	Cr.
STAT 1772	3
TECH 2051	4
UNIFI course	3
UNIFI course	3
UNIFI course	3
Total	**16**

Spring 2	Cr.
TECH 4104	3
TECH 4167	3
UNIFI course	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 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.