University of Northern Iowa

Department of Applied Engineering
Transfer Guide

Kirkwood Community College

Associate of Applied Science (A.A.S.) – Electronics 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 Kirkwood should **expect to complete 66 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly four semesters (two years, a fall/spring/fall/spring sequence), with one summer course, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	28
Other credits transferring to UNI (Gen eds or electives)	26
Total credits transferring towards UNI degree	54
Total credits needed at UNI	**66** (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 745**–Technical Math I ***&* MAT 746**–Technical Math II at Kirkwood.
- PHYSICS 1511 – General Physics I (4 cred.)
  - Students must complete **PHY 230**–Technical Physics I ***&* PHY 231**–Technical Physics II at Kirkwood.
- TECH 1037 – Introduction to Circuits (3 cred.)
- TECH 1039 – Circuits & Systems (3 cred.)
- TECH 2051 – Analog Electronics (4 cred.)
- TECH 2053 – Digital Electronics (4 cred.)
  - Students must complete **ELT 309** – Digital Circuits ***&*** ELT 616 – Microprocessors I at Kirkwood.
- TECH 3157 – Microcontroller Applications (3 cred.)
- TECH 4103 – Electronic Communications (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 Kirkwood as part of this A.A.S. curriculum:

- Communications course (3 cred.)
  - Students should complete **ENG 105**–Composition I ***&* ENG 106**–Composition II at Kirkwood.
- Humanities or History/Culture course (3 cred.)
  - Students should complete one of the following courses at Kirkwood:
    - **HIS 151** – U.S. History to 1877
    - **HIS 152** – U.S. History since 1877
- **PSY 111** – Introduction to Psychology (3 cred.)
- Additional university electives transferring (17 cred.)

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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	**34**

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	9
Total UNIFI Credits Remaining	**22**

Credits needed to earn UNI degree	**66**

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
STAT 1772	3
ENGR 1000	3
ENGLISH 3772	3
UNIFI course	3
Total	**15**

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
TECH 3164	3
UNIFI course	3
UNIFI course	3
Total	**16**

Summer 1	Cr.
UNIFI course	3
Total	**3**

Fall 2	Cr.
TECH 3129	3
TECH 4165	3
UNIFI course	4
UNIFI course	3
UNIFI course	3
Total	**16**

Spring 2	Cr.
TECH 2055	4
TECH 3160	3
TECH 4104	3
TECH 4167	3
ENGR 4500	3
Total	**16**

Other Important Information

- This transfer guide is based off the 2025-2026 academic catalogs at UNI & Kirkwood 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.