

## **Kirkwood Community College**

Associate of Applied Science (A.A.S.) – CNC Machining Technology

Transfer guide to the University of Northern Iowa

Bachelor of Science (B.S.) - Automation Engineering Technology

#### 1. When will I graduate?

Students transferring to UNI from this A.A.S. program at Kirkwood should **expect to take 77 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	34
Other credits transferring to UNI	9
Total credits transferring towards UNI degree	43
Total credits needed at UNI	77 (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 1010 Fundamentals of Materials Removal (3 cred.)
- TECH 1024 Engineering Design with CAD (3 cred.)
- TECH 3147 Computer-Aided Manufacturing (3 cred.)
- AET Electives (15 cred.)
- Additional university electives transferring (10 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 Kirkwood as part of this A.A.S. curriculum:

- Communications course (3 cred.)
  - o Students should complete ENG 105 Composition I & ENG 106 Composition II at Kirkwood.
- Humanities or History/Culture course (3 cred.)
  - o 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.)





# Department of Applied Engineering & Technical Management Transfer Guide

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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 1150 or	Calculus for Technology <b>or</b>	4
MATH 1420	Calculus I	
PHYSICS 1511	General Physics I	4
STAT 1772	Intro to Statistical Methods	3
	Total Credits Remaining	14

AET Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
PHIL 1560	Science, Technology & Ethics	3
TECH 1010	Fund. of Materials Removal	3
TECH 1024	Engineering Design with CAD	3
TECH 1037	Intro to Circuits	3
TECH 1039	Circuits & Systems	3
TECH 2053	Digital Electronics & Lab	4
TECH 2055	Electrical Power & Mach. & Lab	4
TECH 2065	Industrial Robotics	3
ENGR 2080	Statics	2
ENGR 2180	Strengths of Materials	2
TECH 3147	Computer Aided Manufacturing	3
TECH 3148	Machine Design	3
TECH 3160	CompAided Instru. & Inter.	3
TECH 3164	Prog. Logic Controllers	3
TECH 4162	Automation: Pneu & Hydrau.	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	AET Electives	<del>15</del>
	Total Credits Remaining	45

UNI Foundational Inquiry (UNIFI)	Cr.
WR Written Communication	ψ
OC - Oral Communication	3
QR Quantitative Reasoning	¢υ
HD - Human Condition (Domestic)	<del>S</del>
HG - Human Condition (Global)	ω
SR Scientific Reasoning (with Lab)	4
HE - Human Expression	3
RE Responsibility	ψ
UNIFI certificate <b>or</b> UNIFI electives	9
Total UNIFI Credits Remaining	18

Credits needed to earn UNI degree 77

## 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
PHYSICS 1511	4
ENGR 1000	3
TECH 1037	3
UNIFI course	3
Total	16

Fall 2	Cr.
STAT 1772	3
TECH 2053	4
TECH 2065	3
ENGR 2080	2
UNIFI course	3
Total	15

Fall 3	Cr.
TECH 3148	3
TECH 4162	3
ENGR 4500	3
UNIFI course	3
UNIFI course	3
Total	15

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
TECH 1039	3
ENGLISH 3772	3
UNIFI course	3
Total	16

Spring 2	Cr.
TECH 2055	4
ENGR 2180	2
TECH 3160	3
TECH 3164	3
UNIFI course	3
Total	15

## **Other Important Information**

- This transfer guide is based off of the 2023-2024 academic catalogs at UNI & Kirkwood 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.