University of Northern Iowa

Department of Applied Engineering
Transfer Guide

North Iowa Area Community College

Associate of Applied Science (A.A.S.) – Tool & Die 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 NIACC should **expect to take 86 credits at UNI**. Assuming that the student is starting at UNI during the fall semester, it will take roughly six semesters (three years, a fall/spring/fall/spring/fall/spring sequence), with no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	22
Other credits transferring to UNI (Gen eds or electives)	12
Total credits transferring towards UNI degree	34
Total credits needed at UNI	**86** (120 total)

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

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 I at NIACC.
- TECH 1010 – Fundamentals of Metal Removal (3 cred.)
- TECH 1024 – Engineering Design with CAD (3 cred.)
- TECH 3147 – Computer-Aided Manufacturing (3 cred.)
- AET Electives (9 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 NIACC as part of this A.A.S. curriculum:

- Additional university electives transferring (12 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 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 1010~~	~~Fund. of Metal Removal~~	~~3~~
~~TECH 1024~~	~~Engineering Design with CAD~~	~~3~~
TECH 1037	Introduction to Circuits	3
TECH 1039	Circuits & Systems	3
PHIL 1560	Science, Technology & Ethics	3
TECH 2053	Digital Electronics	4
TECH 2055	Elec. Power Systems & Mach.	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	Comp.-Aided Instru. & Inter.	3
TECH 3164	Prog. Logic Controllers	3
TECH 4162	Hydraulics & Pneumatics	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	~~AET Electives~~	~~9~~
	Total Credits Remaining	**45**

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	**31**

Credits needed to earn UNI degree	**86**

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
TECH 1037	3
UNIFI course	3
Total	**15**

Spring 1	Cr.
MATH 1150	4
PHIL 1560	3
TECH 1039	3
UNIFI course	3
Total	**13**

Fall 2	Cr.
TECH 2053	4
TECH 2065	3
ENGR 2080	2
ENGLISH 3772	3
UNIFI course	3
Total	**15**

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

Fall 3	Cr.
TECH 3148	3
TECH 4162	3
UNIFI course	4
UNIFI course	3
UNIFI course	3
Total	**16**

Spring 3	Cr.
TECH 3160	3
TECH 3164	3
ENGR 4500	3
UNIFI course	3
Total	**12**

Other Important Information

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