

North Iowa Area Community College

Associate of Applied Science (A.A.S.) – Industrial Mechanical Technician

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 64 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 no summer coursework, to graduate.

Transfer Credit Summary	Credits
A.A.S. credits transferring directly into UNI program	44
Other credits transferring to UNI	12
Total credits transferring towards UNI degree	56
Total credits needed at UNI	64 (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 1037 – Introduction to Circuits (3 cred.)
- TECH 2053 – Digital Electronics & Lab (4 cred.)
- TECH 2065 – Industrial Robotics (3 cred.)
- TECH 3164 – Programmable Logic Controllers (3 cred.)
- TECH 4162 – Automation: Pneumatics & Hydraulics (3 cred.)
- AET Electives (15 cred.)
- Additional university electives transferring (13 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 NIACC as part of this A.A.S. curriculum:

- Communications elective (3 cred.)
 - Students should complete SPC 112 – Public Speaking **or** SPC 122 – Interpersonal Communication at NIACC.
- General education elective (6 cred.)
 - Students should complete ART 101 – Art Appreciation **or** MUS 100 – Music Appreciation at NIACC.
 - Students should complete MAT 156 – Introduction to Statistics at NIACC.
- Humanities/Social Science elective (3 cred.)
 - Students should complete PSY 111 – Introduction to Psychology **or** SOC 110 – Introduction to Sociology at NIACC.



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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		11

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	Comp. Aided Instru. & Inter.	3
TECH 3164	Prog. Logic Controllers	3
TECH 4162	Automation: Pneu & Hydraul.	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	AET Electives	15
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		18

Credits needed to earn UNI degree 64

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.
MATH 1420	4
PHYSICS 1511	4
ENGR 1000	3
TECH 1024	3
UNIFI course	3
Total	17

Spring 1	Cr.
CS 1160	3
PHIL 1560	3
TECH 1010	3
TECH 1039	3
ENGR 2080	2
Total	14

Summer 1	Cr.
UNIFI course	3
Total	3

Fall 2	Cr.
ENGR 2180	2
TECH 3148	3
ENGLISH 3772	3
UNIFI course	3
UNIFI course	3
Total	14

Spring 2	Cr.
TECH 2055	4
TECH 3147	3
ENGR 4500	3
UNIFI course	3
UNIFI course	3
Total	16

Other Important Information

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