

Northeast Iowa Community College

Associate of Applied Science (A.A.S.) – Engineering Technology

Transfer guide to the University of Northern Iowa

Bachelor of Science (B.S.) – Manufacturing Engineering Technology

1. When will I graduate?

Students transferring to UNI from this A.A.S. program at NICC 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	40
Other credits transferring to UNI	3
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:

- MATH 1420 Calculus I (4 cred.)
 - Students must complete MAT 744 Technical Math & MAT 747 Technical Math II at NICC.
- PHYSICS 1511 General Physics I (4 cred.)
 - Students must complete PHY 162 College Physics I or PHY 710 Technical Physics at NICC.
- TECH 1008 Basic Manufacturing Processes (3 cred.)
- TECH 1024 Engineering Design with CAD (3 cred.)
- TECH 2036 Power Technology (3 cred.)
- TECH 2065 Industrial Robotics (3 cred.)
- TECH 4162 Hydraulics & Pneumatics (3 cred.)
- Additional university electives transferring (17 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 NICC as part of this A.A.S. curriculum:

• PSY 112 – Psychology of Human Relations (3 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.
CHEM 1020 or	Chemical Technology or	4
CHEM 1110	General Chemistry I	
CS 1510 or	Introduction to Computing or	3
CS 1160	C/C++ Programming	
MATH 1420	Calculus I	4
PHYSICS 1511	General Physics I	4
	Total Credits Remaining	7

Technical Core		Cr.
ENGR 1000	Intro. to Eng. & Prof. Practices	3
TECH 1008	Basic Manufacturing Processes	3
TECH 1010	Fund. of Metal Removal	3
TECH 1024	Engineering Design with CAD	3
PHIL 1560	Science, Technology & Ethics	3
TECH 2024	Technical Drawing with GD&T	3
TECH 2036	Power Technology	3
TECH 2065	Industrial Robotics	3
TECH 2072	Engineering Materials	3
ENGR 2080	Statics	2
ENGR 2180	Strengths of Materials	2
TECH 3113	Manufacturing Tooling	3
TECH 3136	Principles of Metal Casting	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Manag. Ops. & Manuf. Systems	3
TECH 3147	CompAided Manufacturing	3
TECH 3177	Adv. Manufacturing Processes	3
TECH 4137	Tooling Prac. in Metal Casting	3
TECH 4162	Hydraulics & Pneumatics	3
ENGR 4500	Senior Design	3
ENGLISH 3772	Tech. Writing for Eng. Tech.	3
	Total Credits Remaining	46

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	24

Credits needed to earn UNI degree 77

Based on the remaining coursework, below is a semester-by-semester breakdown of how the student would complete any remaining requirements at UNI.

5. How would I complete my degree?

Fall 1	Cr.
CS 1160	3
CHEM 1020	4
ENGR 1000	3
UNIFI course	3
UNIFI course	3
Total	16

1000	3	TECH 2024	
course	3	TECH 2072	
course	3	ENGLISH 3772	
T-4-1	7	Tatal	
Total	16	Total	
lotai	16	Iotai	
Total	16 Cr.	Spring 2	
2080			
	Cr.	Spring 2	

Spring 1 PHIL 1560 TECH 1010

Fall 2	Cr.
ENGR 2080	2
TECH 3143	3
TECH 3177	3
UNIFI course	3
UNIFI course	3
Total	14

Spring 2	Cr.
ENGR 2180	2
TECH 3113	3
TECH 3147	3
UNIFI course	3
UNIFI course	3
UNIFI course	3
Total	17

Fall 3	Cr.
TECH 3136	3
TECH 3142	3
TECH 4137	3
ENGR 4500	3
UNIFI course	3
Total	15

Other Important Information

- This transfer guide is based off of the 2024-2025 academic catalogs at UNI & Northeast Iowa 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.